

CONSTRUCTION
CHEMICALS
PRODUCTS
CATALOGUE



CERMIX
SOLUTIONS EXPERTES
CONSTRUCTION CHEMICALS



Not: All recommendations and instructions on the technical catalogue are generally based on our experience and laboratory tests. Please consult us for technical advice for applications on special surfaces not mentioned in the technical catalogue. Our company reserves the right to update the information on the technical catalogue in case of technical necessities without prior notice. The technical sheets in the technical catalogue cannot be used as a guarantee letter for any circumstance. Our company cannot be hold responsible for the false values or technical statements caused by printing mistakes. This new catalogue supersedes the previous editions.

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KORAMIC CONSTRUCTION CHEMICALS

In 1998, Koramic Construction Chemicals was established in accordance with a 50-50% Partnership Agreement between Koramic Building Products S.A., a Belgian Company, and Eczacbaşı Group.

100% of shares in the company were transferred to Koramic Group pursuant to an agreement concluded in June 2011, and the new trade title of the company became Koramic Yapı Kimyasalları Sanayi ve Ticaret Anonim Şirketi

In 2019, Koramic Building Products S.A. and Tekkon Group have signed a 50-50% Partnership Agreement.

It has a production capacity of approximately 250,000 tons per year on an area of approximately 30,000 m² in 2 production facilities operating in Bozüyük and Tarsus Organized Industrial Zones.

Koramic offers its co-brands with the leading ceramic manufacturers of our country and Cermix, Europe's leading construction chemical brand, to the construction sector in Turkey and neighboring countries.

Our Corporate Goal

To be an innovative, high quality, reliable, environmentally-conscious, human-oriented, leading company in the construction chemicals industry at the local and regional level.

The purpose of our Organisation is to be a leader in the construction chemicals industry. It is aimed to reach this goal by continuously investing in R&D to develop our product portfolio in accordance with the ever-changing needs of our industry, while continuously improving our quality control and service standards in accordance with our Quality Policy and Certificates. It is the goal of Koramic Construction Chemicals to become a local and global leader in the sector.

It is the primary strategy of Koramic Construction Chemicals to introduce the technologies we have developed to the Middle East and Africa construction sectors and to contribute to the development of the building sector in these geographies.

To reach our Corporate Goal;

Colleagues and Community: To ensure that our colleagues reach their full potential by providing a safe and efficient working environment. To provide employment and add value to communities in the regions and countries where we carry out our operations.

Partners: To add value to the operations of our suppliers and customers by increasing cooperation, efficiency and profitability.

Corporate: To increase our presence as a construction industry solutions partner in the regions we operate. To take advantage of the opportunities we encounter, to expand our solution portfolio and to take advantage of economies of scale.

Our Values

Business Ethics: The success and future of our business depends on the priority we place on ethical values. The reputation of our company and operations in the sector is vital. All of the decisions we make are in accordance with the rules and regulations of the regions we operate in. Apart from customer and supplier trust, our ethical values provide an environment of trust within the company and increase our efficiency as a community. Our respect for our colleagues and partners affects the success of our company.

Quality: The satisfaction of our customers is our top priority. In order to achieve this priority, we optimize our supply chain, operation and services according to the Quality Control Standards we have determined. Quality Control is an indispensable part of our corporate culture. We are aware that it is insufficient to reach material goals in order for our company to be considered successful; real success comes from increasing the happiness and indirect performance of our colleagues by creating healthy, safe and positive working conditions. As a company, we always give priority to the health of our employees and partners.

Leadership: Being fast, flexible and innovative in challenging markets and mature sectors reinforced our leadership and helped us achieve results. In the future we will continue to be the Pioneer of our industry.

Sustainability: Koramic Construction Chemicals we realize that the only way to create added value in our sector is to share our resources in a sustainable and rational way. Our minimum waste policy and our efforts to reduce our carbon emissions are the biggest indicators of the importance we give to sustainability.

Environmental Awareness: We aim to comply with environmental laws, norms and other demands in all the work and production processes we carry out in order to contribute to the development, production and maintenance of quality in new products.

By investing in technology and our processes we increase production efficiency. We prioritize using natural resources efficiently and developing energy-saving products.

Production Facilities

Bozüyük Factory

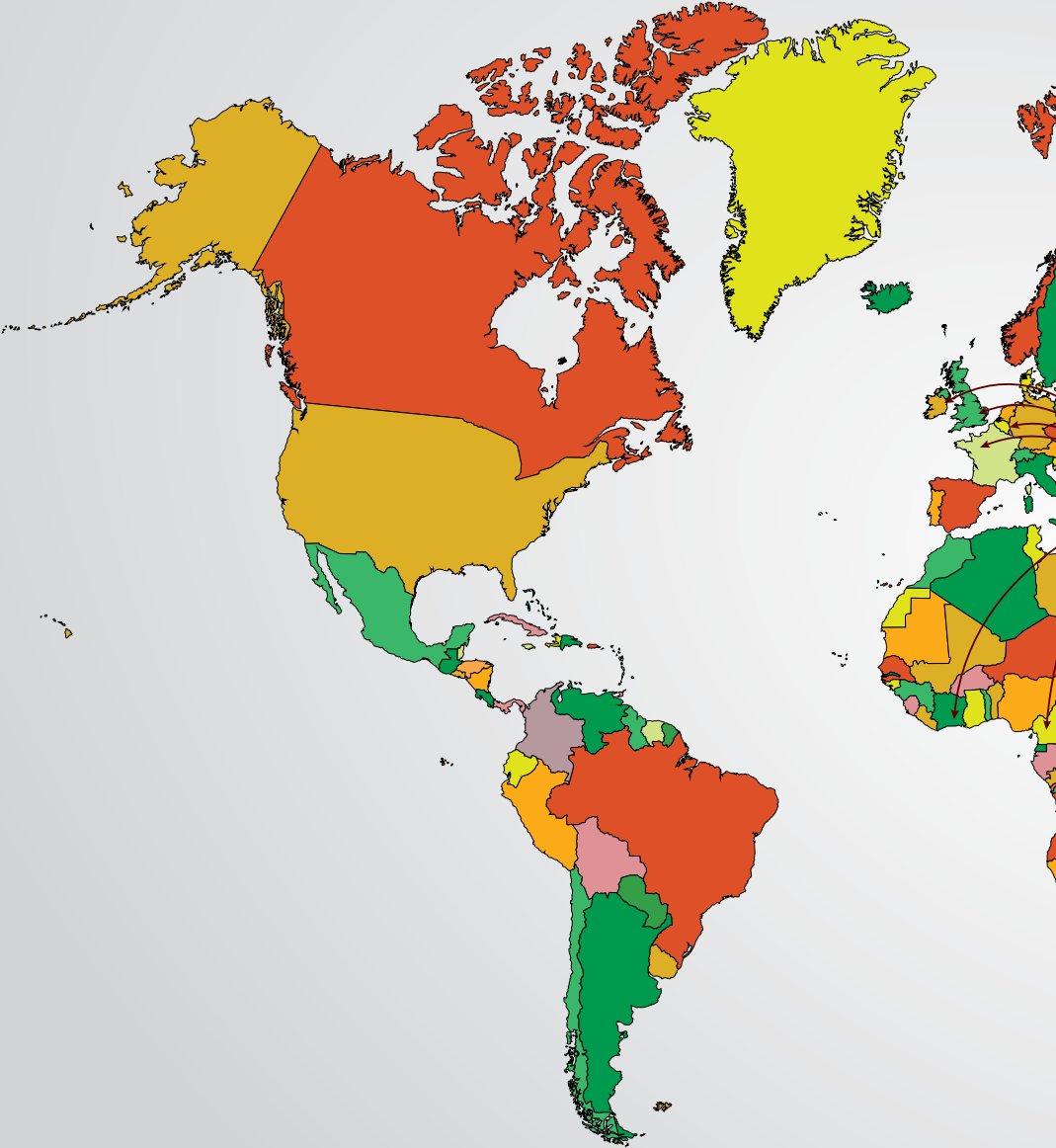
The Bozüyük Factory is built with advanced Technologies, and has the largest closed production facility in our region. The whole production process, from input of raw materials to the dispatch is automated.

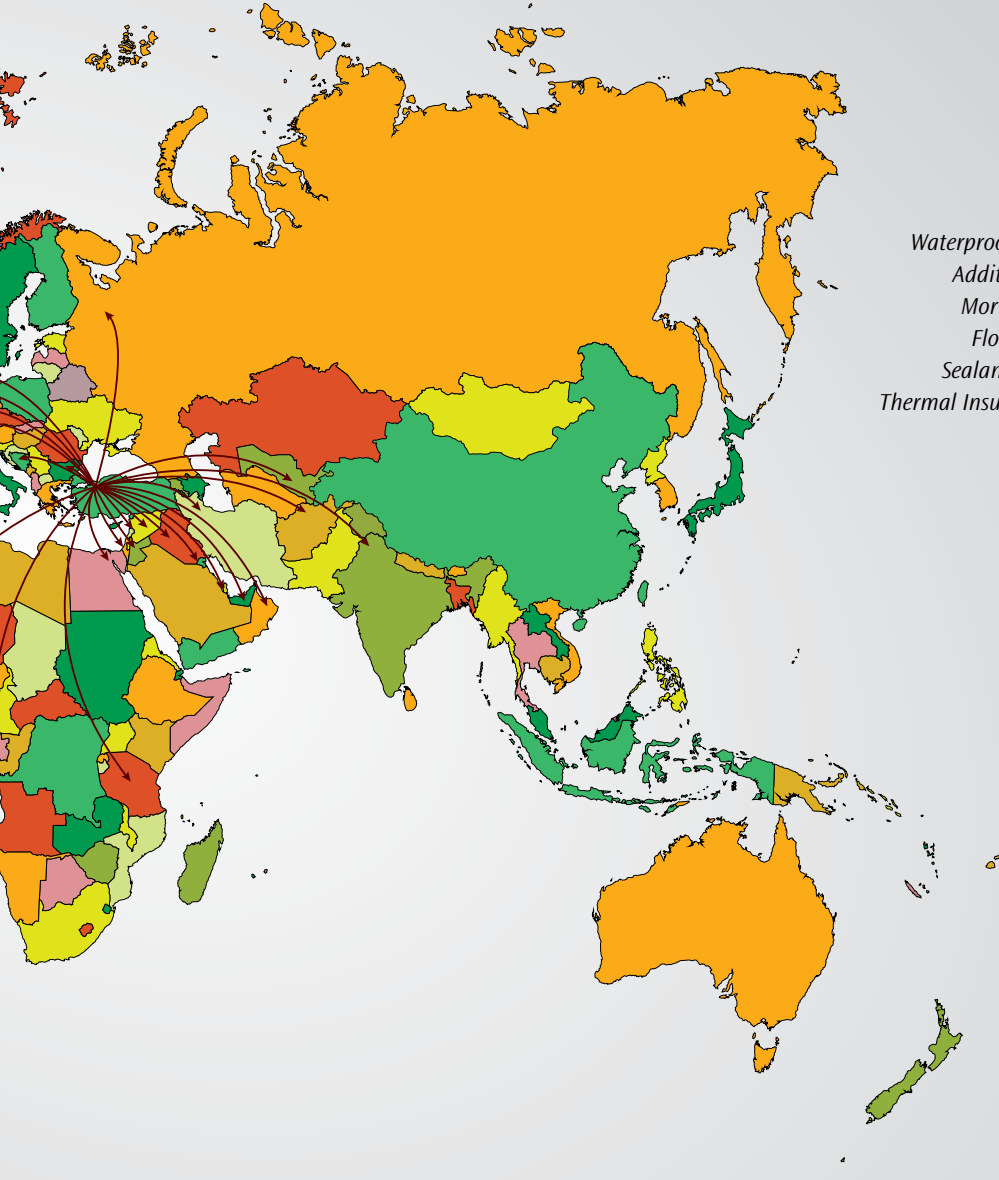
| | |
|----------------------------|-------------------------|
| Total area | : 22.000 m ² |
| Total closed area | : 8.000 m ² |
| Annual production capacity | : 188.000 tons/year |

Mersin Factory

Mersin factory commenced production in 2007. It provides great advantage to the company having major roles in domestic and international target markets, while ensuring a solid penetration to the markets. Factory's distance to Mersin Port, Adana and Gaziantep are 23 km, 75 km and 250 km, respectively. The factory has a flexible production line, where grey and white powder productions can be carried on simultaneously.

| | |
|----------------------------|------------------------|
| Total area | : 7.500 m ² |
| Total closed area | : 2.100 m ² |
| Annual production capacity | : 60.000 tons/year |





*Adhesives
Joint Fillers
Waterproofing Materials
Additives & Primers
Mortars & Anchors
Flooring Products
Sealants and Mastics
Thermal Insulation Systems*



Website
www.cermix.com.tr

Our website offers up to date information about our products and solutions. It is even easier now to utilise our solution house tool, where you will find the right product selection charts and visually supported technical specifications of various tiling applications. You will find all acces information of our sales points, and interactive tools and digital materials supporting you in every technical detail.

Technical Support

You can receive professional support and technical advice at all times about Cermix products and solutions. We shall recommend you the most suitable Cermix products and solutions based on your project details and your requirements.

*Technical Seminars
and
Training Courses*

We value product and application training courses. These are essential to ensure that our products are applied correctly and our clients needs are met in the most efficient and effective way.

Our training courses are based on a "appropriate system & appropriate application" principal. Please do not hesitate to contact us for:

- Product introduction sessions.*
- Detailed technical and application sessions.*
- In person application sessions at our training facilities in Bozüyük/Mersin.*



APPLICATION METHODS

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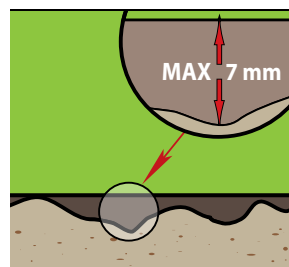
SUBSTRATE PREPARATION



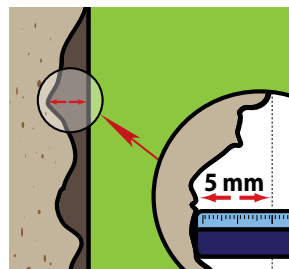
SUBSTRATE FLATNESS

The substrate should be flat for an accurate and easy tiling application.

- The deepest point of the application surface in 2 m long straight gauge should not exceed 7 mm.

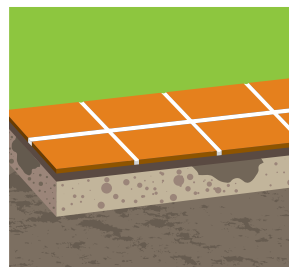


- The surface deviation is limited to 5 mm under 2 m long straight gauge for substrates of floors exposed to heavy loads and heavy pedestrian traffic, external facades, and pool shell screeds and walls.



- For larger deviations, the surface should be smoothened with either surface repairing and smoothing plasters or leveling materials.

- Tile adhesives are not leveling materials. Thus, it is improper to use them for substrate smoothening and leveling purposes.



SUBSTRATE PREPARATION

SUBSTRATE STABILITY

Disbonding, cracking, covering deformation and etc. problems may arise at later stages of tiling or during servicing life of the tiled areas. The substrate should be stable in order to prevent problems originated from bonding failures of the adhesive on the substrate.



- The strength of the existing plaster or screed surface should be checked. For this, the entire surface should be examined with a hammer, etc., at different points.



- Loose and unstable surfaces should be removed until the sound and stable layer. Then, the substrate should be leveled with surface repairing and smoothening materials. **CermiFilm** should be applied for increasing bonding adhesion. (**CermiMortar**, **CermiRep**, **CermiFloor**)



- In case of an existing covering;
- Loose and bloated existing paint should be removed mechanically. Notching, sanding the surface using **CermiFilm Plus** will provide suitable bonding adhesion of the adhesive.



- Wooden floors and pannels must not move or flex when exposed to loading (stepped on or pressed), which will cause instability of the covering leading to disbonding and cracking problems. The loose boards or parts should be replaced, pannels laid on joists or battens should be reinforced and fixed to stabilize by anchoring every 30 cm max.

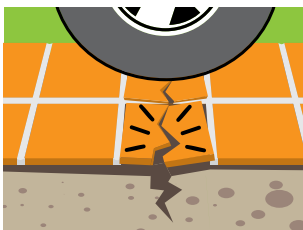


- Adhesion and rigidity of the existing tile or PVC covering should be checked by tapping a hammer or scraper. Loose or poorly adhering covering should be removed and replaced by similar covering or the substrate should be re-constituted with a suitable repairing product. (**CermiMortar**, **CermiRep**)

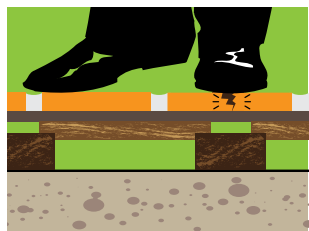
SUBSTRATE PREPARATION

LEVELLING OF THE UNEVEN AND WEAK FLOOR SUBSTRATES

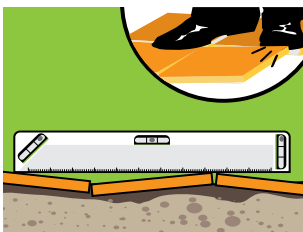
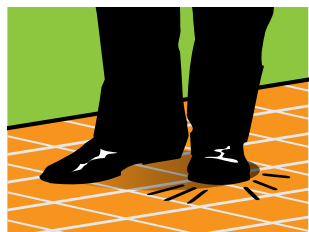
The uneven and unstable floor substrates should be flatted with suitable surface repairing and smoothing mortars, particularly for proper applications of big sized tiles.



- Weak substrates may smash due to the applied heavy loads and vibration. This will cause the substrate to lose its load bearing capacity and adherence performance. Covering will disbond, deform or crack, when the substrate cannot bear the loads with sufficient strength.



- Any area of the tile that has no contact on the substrate and has voids is vulnerable when subjected to a localized load. These fragile points will let cracks and crashes of the covering.



- If the substrate is not leveled, this will cause edges on the covering. The edges will affect aesthetics of the covering and block motion.



The substrate should be smoothed and stabilized with either surface repairing and smoothing plasters or leveling compounds. (**CermiRep, CermiFloor**)



- Necessary expansion joints should be left considering the thermal stresses and mechanical loads (pedestrian traffic, additional loads) that may occur in the floors due to temperature changes. Suitable dilatation profiles or joint sealants should be used for these joints. (**CermiTape FPO and Cermithane**)

SUBSTRATE PREPARATION

SUBSTRATE CLEANLINESS

The substrate should be clean for a proper bonding of the adhesive.

Surfaces should be clean and free from dust, dirt, grease or any other contaminating barrier.

- It is recommended to wash and clean up the surface with pressurized water.
- Residues and stains on existing tiles can be cleaned by appropriate cleaning materials.
- Subsequently hardened or polished surfaces and laitance (concrete and etc.) must be removed by scabbling.



PRIMING THE SUBSTRATE

Substrates with different formats may have different surface absorptivities (water permeability).

- Gypsum (board, pannel and plaster), wooden (board, pannel and OSB), cement (board, plaster and screed) based substrates have high surface absorptivity.
- Surface absorptivity for concrete substrate is very low, where glazed tiles or painted surfaces have almost any.



Surfaces with high absorptivity absorb the mixing water of the cementitious adhesive or other mortars very fast. Thus, the mortar loses out its mixing water and this will cause early but improper setting leading to weak adhesion and dis-bonding of the covering.

- To control surface absorptivity the surface should be wetted. If the surface absorbs the water fast (in 30-45 seconds), then the surface is segmented as high surface absorptive.



- Sealing with appropriate primers; the high absorptivity of surfaces should be reduced and balanced, where surface adhesion should be improved for impervious substrates with primers including thick fillings (thick fillings expand bonding surface) (**Cermi-Film, CermiFilm Plus, CermiFilm Plus Beton**)



SUBSTRATE PREPARATION



• When tiling during hot, windy and dry conditions, it is inevitable that the mortar will lose its mixing water very fast due to rapid evaporation. Prior to spreading the mortar on the substrate, wetting or damping will decrease substrate surface temperature reasonably. For better performance, the surface should be sealed with appropriate primers.

• Primers are liquid and can be applied easily on the surface with a roller or brush. The surface should be completely sealed in one or two coats, forming pinhole free film coat.

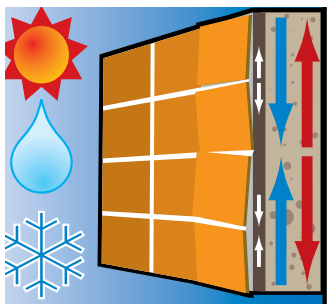
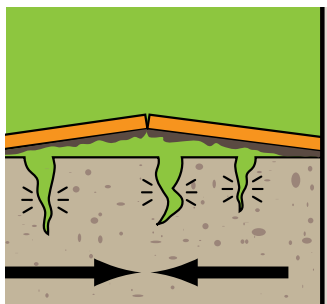


• Adhesion and rigidity of the existing tile covering should be checked by tapping a hummer. Loose or poorly adhering covering should be removed and replaced by similar covering or the substrate should be reconstituted with a suitable repairing product. Before plastering onto existing tiles, surface adhesion should be improved for impervious the substrate with primers including thick fillings. (*CermiFilm Plus*)



FRESH SUBSTRATES

It should not be tiled onto new screed, plaster or concrete. Leave fresh substrate for at least 4-6 weeks to fully set, before substrate repairing, surface smoothing and tiling.



• Curing time should be waited before application on exterior facade applications, exposed concrete and freshly plastered surfaces. Otherwise, mechanical movements (shrinkage shrinkage) that will occur in the concrete during the curing period on exterior facades may combine with the thermal movements (expansion-shrinkage) created by the external environment and create a risk in terms of adhesion of the coating material.

FLATTENING OF THE DEFECTED SUBSTRATES



- As a preparation to paint coating, the substrate should be plastered with two coats;
- To prevent cracks that may form on plaster surface due to shrinkage in thick plaster coats and thermal effects of outdoor conditions, a reinforcement mesh (alkali resistant type) can be applied between coats. Reinforcement mesh is embedded in the first coat of plaster, when its still wet as recommended by the reinforcement manufacturer.
- After 3 days of curing duration of the first coat, the second coat is applied for a smooth and even surface ready for painting.

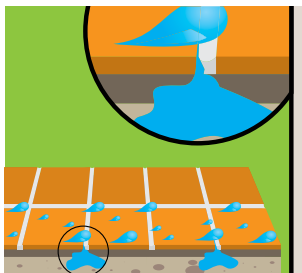
WATERPROOFING



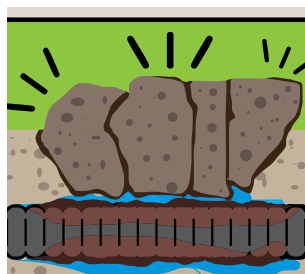
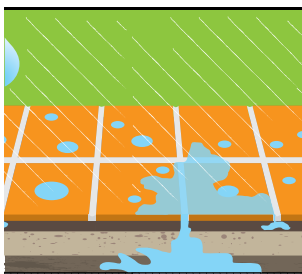
NECESSITY OF WATERPROOFING

Where it will be exposed to water effect such as wet areas, outdoor terraces and pools, the substrate should be coated with appropriate waterproofing materials

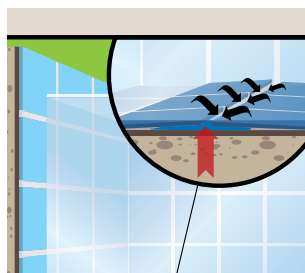
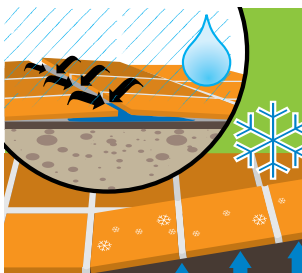
- The water may permeate through the pores or voids on the covering and joints into the adhesive and substrate. The water permeated by the substrate may encourage moisture and mould growth. The trapped water may seep through the substrate to lower floors in buildings and cause further problems.



- If trapped water in the substrate runs to the concrete building structure and contacts with reinforcement elements, it will cause corrosion of the elements. Corrosion will cause volume expansion in the concrete and reinforcement causing internal stresses and cracks, thus resulting with a vulnerable building structure.



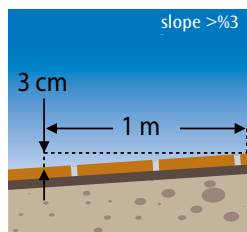
- Pool and terraces; the water seeped under the covering may freeze in cold weathers due to hot-cold air exchange. This will cause volume expansion and tension under the covering. Tension may cause disbonding, cracking or deformations of the covering.



WATERPROOFING

WATERPROOFING APPLICATION (AGAINST POSITIVE WATER PRESSURE)

Most of the waterproofing materials particular to tiling are applied by smearing the material on the substrate.



- For application in wet areas (bathroom vb.) semi-elastic waterproofing materials (**Cermiproof SF**) will provide required performance, where in pools and large terraces full-elastic materials are required. (**Cermiproof FF Plus**, **Cermiproof PU**, **Cermicryl UV**)

- Vertical and horizontal corners may work in different axis under loading of the structure. These forces will generate shear forces along cold joints. These joints form the critical points with crack possibility.

- Even though a waterproofing material is required to be flexible, its flexibility may not be sufficient to absorb the movements arising at the cold joints (internal corners) of the applied area. Reinforcement with flexible tape or alkali resistant reinforcement mesh should be performed in order to prevent any water leakages at cold joints. (**CermiTape TPE**)

- If the area subject to waterproofing will be exposed to continual water pressure (such as pools or water tanks) reinforcement of the waterproofing coating is recommended strictly. Reinforcement should be done with appropriate reinforcement materials (such as alkali resistant reinforcement mesh). Reinforcement is embedded in the first coat of waterproofing, when the coat is still wet, as recommended by the reinforcement manufacturer. Upon drying of the reinforced first coat, second coat should be applied as described above.

- Waterproofing material is applied over the surface using a stiff brush or a paint roller. 2 coats of application is recommended. It should be applied over the surface spreading out evenly and ensuring full overlap between each brush or roller application. The second coat should be applied as soon as the first coat has dried (reached initial set). Apply the second coat in right angles to the first coat application direction to ensure a pinhole free application (in practical, application is recommended in such that first coat in horizontal and second coat in vertical directions).

- Before applying waterproofing on the substrate, surface adhesion should be improved with appropriate primers, particularly for high porosity substrates. (**CermiFilm**, **CermiAstar**)

- On terraces, wet areas and similar areas there should be an incline of minimum 3% along the direction of drain.

- Insulation details of structures on the covering (such as pool lighting armatures, discharge pipes, drains and faucets) should be figured out with appropriate waterproofing solutions. (**Cermithane**, **Cermithane MS**)

TILE FIXING



BONDING MECHANISM OF A TILE ON THE SUBSTRATE

The adherence of a tile adhesive on the substrate and back of tile are subject to two types of bonding mechanisms:

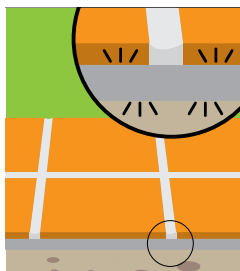
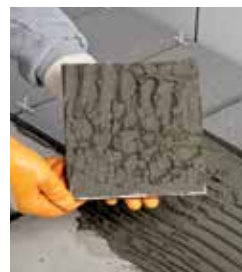
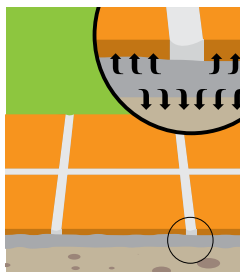
Mechanical bonding.

- Standard type adhesives, applied when mixed with water (cement as mineral binding content) or ready mixed as a dispersion (acrylic as mineral binding content), engages physically with small irregularities, pores (absorbed by the substrate and tile with capillary forces) etc. in the surface and forms a strong bond when adhesive sets in those pores, resulting in a mechanical keying action to bond.

- (Tile is referred to covering materials; ceramic wall and floor tiles, porcelain tiles, glass mosaics and tiles, natural stones and marbles, and etc.)

Physical bonding.

- When the tile or substrate has an impervious surface, then the hydraulic adhesives cannot be absorbed into the material and there is no allowance for a mechanical bonding. The bonding should be provided only by the surface itself. Thus, organic polymers binding agents are added into the adhesive content (polymer modified adhesives) to provide a strong bonding of the adhesive on the tile or substrate surface (polymer binder is referred to reactive resins or thermoplastic dispersions which adhere by chemical bonding, Van der Waals forces and etc.).



TS EN 12004-1 Standard

EN 12004-1 Standard identifies the test and performance criteria to classify tile adhesives. According to the standard, the adhesives are classified by their performances.

Tile adhesives are categorized according to their chemistry and these categories are abbreviated by letters of the alphabet:

C Cement Based

- Cement based powder adhesive is mixed with a specific amount of water or some other liquid to use.

D Acrylic Dispersion Based

- Water emulsion based paste adhesive with synthetic polymer additive. It is ready for use.

R Reactive Resin Based

- Two or more components (including one component as the resin and one another as the hardener) are mixed in specific amounts to use.

TILE FIXING

The adhesive in one of the adhesive chemistry categories is classified into one of the two performance classes according to its performance level in defined tests:

Class 1

- (Normal) **Standard Performance** adhesive. It validates the minimum required performance level in tests.
- It is suitable for standard applications requiring no special performance.

Class 2

- (Improved) **High Performance** adhesive. It validates higher performance levels in comparison to standard performance adhesives.
- It is suitable for applications with types of works subject to coercive environmental forces requiring special performance.

| Tensile Strength | C1 | D1 | C2 | D2 |
|------------------------|-------------------------|----|-------------------------|----|
| After 28 days | ≥ 0,5 N/mm ² | | ≥ 1 N/mm ² | |
| Aging with heat | ≥ 0,5 N/mm ² | | ≥ 1 N/mm ² | |
| Aging with water | ≥ 0,5 N/mm ² | | ≥ 1 N/mm ² | |
| Freeze-thaw cycle | ≥ 0,5 N/mm ² | | ≥ 1 N/mm ² | |
| Open time (20 minutes) | ≥ 0,5 N/mm ² | | ≥ 0,5 N/mm ² | |

Standard defines three optional characteristics for a class 1 or class 2 adhesive:

F Fast Setting

- Tensile strength (max. 6 hours later) ≥ 0,5 N/mm²
- Ideal for tiling applications when short drying time is required, particularly for renovation works, and for cold and high humidity conditions that extends drying time.

T Reduced Slip

- Slip ≤ 0,5 mm
- Ideal for tiling applications of large and heavy tiles on walls.

E Extended Open Time

- Tensile Strength (fixing at the 30th minutes of open time) ≥ 0,5 N/mm²
- Ideal for tiling applications when long working time is required, particularly for large areas, and for hot and dry conditions that shortens drying time.



According to its deformability level the adhesive is classified into one of the two performance classes:

- Deformability features are required for tiling applications such as for pools, industrial floors subject to heavy loads, facades affected by severe temperature fluctuations.

S1 Deformable Adhesive

- Deformation ≥ 2,5 mm but < 5,0 mm

S2 Highly Deformable Adhesive

- Deformation > 5,0 mm



TILE FIXING

REQUIRED-ESSENTIAL FEATURES FOR A TILE ADHESIVE

Below are the features of a tile adhesive when it is wet, during application and before it hardens:

- **Workability** (easy application and good spreading performance of the adhesive).
- **Water retention capacity** (for sufficient hydration and bonding performance of the cement based adhesive even on high porosity surfaces).
- **Reduced slip** (non-slipping of the tiles in the new adhesive bed and ensuring fast and efficient wall tiling).
- **Wetness capability** (on the substrate and tile back).
- **Sufficient open and adjustment time.**

Below are the features of a tile adhesive after it hardens and completes its curing:

- **High bonding performance** (between the tile and the substrate).
- **High deformability** (the adhesive should absorb the stresses forming between the substrate and the tiling layer in fluctuating thermal conditions).
- **Reduced water absorption** (hydrophobic dispersion additives providing water repellency).

FACTORS AFFECTING ADHESIVE SELECTION

Surface absorptivity of the tile (water permeability):

• When the adhesive contacts with tile back, it engages physically with small irregularities, pores (absorbed by the substrate and tile with capillary forces) etc. in the surface and forms a strong bond when adhesive sets in those pores, resulting in a mechanical keying action to bond.

• Tiles with different formats such as glass, marble, ceramic or porcelain may have different surface absorptivities (water permeability).

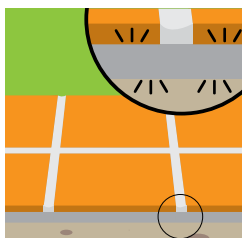
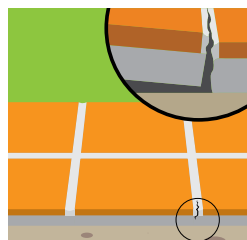
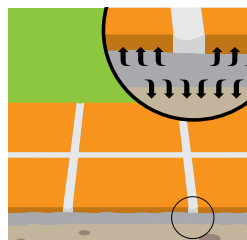
• When tiling is done with a standard performance adhesive onto an impervious substrate, the adherence is much weaker resulting in tiles de-bonding from the substrate.

• When the covering materials has very low or no absorptivity (such as porcelain or glass), then the standard type adhesives cannot be absorbed into the material and there is no allowance for a mechanical bonding.

• Impervious substrates may have no irregularities or pores where the adhesive would engage.

• Bonding of the adhesive onto impervious surfaces (of the substrate or tile back) with a sufficient adherence performance is yielded by chemical additives named polymers (organic resins). Polymers provide the physical bonding of the adhesive.

• To provide improved fixing, tile may be produced with irregularities, pores or roughness on the back.



• According to definitions above, standard performance adhesive is suitable for fixing tiles with water absorption rate $\geq 3\%$ (wall and floor tiles, marble and etc.), whereas high performance adhesive is required for fixing tiles with water absorption rate $< 3\%$ (glass mosaics, porcelain tiles and etc.). However; if coercive environment forces are subjected after tiling, high performance adhesive should be chosen.

TILE FIXING

Surface absorptivity of the substrate (water permeability):



• Substrates with different formats may have different surface absorptivities (water permeability). Gypsum (board, panel and plaster), wooden (board, panel and OSB), cement (board, plaster and screed) based substrates have high surface absorptivity (water absorption rate ~ 5-30 %). Surface absorptivity for concrete substrate is very low, where glazed tiles or painted surfaces have almost any (water absorption rate ~ 0-1 %).



• Sealing with appropriate primers; the high absorptivity of surfaces should be reduced and balanced to enhance bonding capability of the substrate. (**CermiFilm, CermiAstar**)

• When tiling onto substrates with low porosity (water absorption rate < 3%), high performance adhesive should be chosen.



Acrylic dispersion based ready-mixed adhesives are dispersions of polymers and fillings in water and harden and do gain strength by losing the excessive water retained in its form and dry out. On highly absorptive substrates, these adhesives can be applied without priming the substrate.

• The adhesive performance class should be chosen according to the tile format and technical requirements.

Flexible substrates:



Wooden floors and pannels, gypsum boards may move or flex when exposed to loading (stepped on or pressed), which will cause instability of the covering leading to disbonding and cracking problems. Before tiling application, the loose boards or parts should be replaced, pannels laid on joists or battens should be reinforced and fixed to stabilize.

• When tiling onto flexible substrates, covering and substrate should deflect in conformity according to the load applied. The adhesive should be flexible to absorb the amount of movement or in mismatch the tiles will either delaminate or crack.

TILE FIXING

Covering material size and weight:

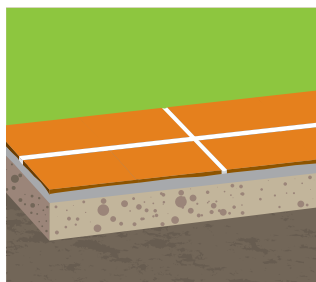
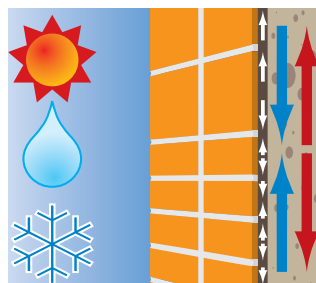
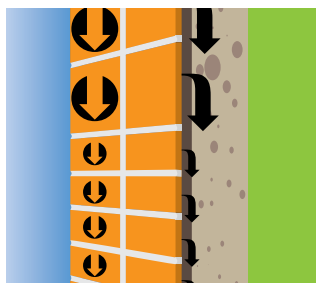
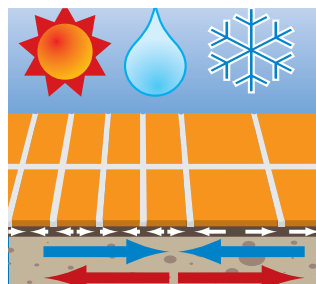
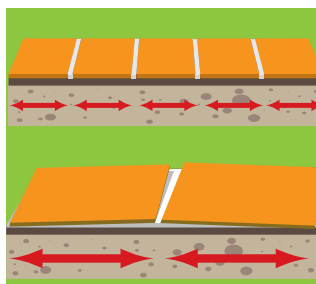
When the adhesive contacts with tile back, it engages physically with small irregularities, pores (absorbed by the substrate and tile with capillary forces) etc. in the surface and forms a strong bond when adhesive sets in those pores, resulting in a mechanical keying action to bond.

- Tiles with different formats such as glass, marble, ceramic or porcelain may have different surface absorptivities (water permeability).

In vertical tiling applications, tile weight per m² is critical.

- Heavy tiles may sag by gravity effect and squeeze the underlying tile. The underlying tile may not resist the sagging load of the upper tile and delaminate from the substrate.

- Large tiles have less joint area to absorb the movements occurring on the covering.

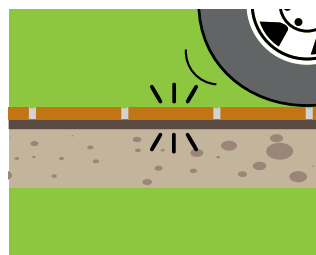
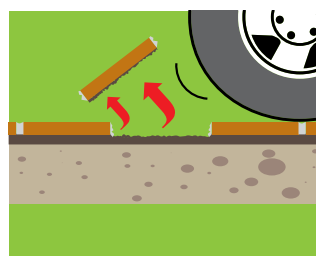
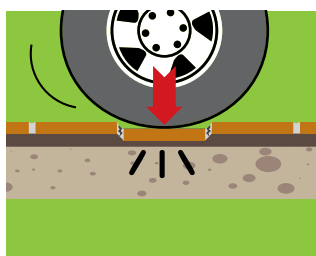


Area of use:

For areas exposed to light pedestrian traffic, standard performance adhesives provide the required technical performance

The floors of public places (hospitals, malls, public buildings) and industrial areas (factories, warehouses) are exposed to heavy loads such as pedestrian or vehicle traffic. Loads will create pressure and vibration on the covering.

- The adhesive must be high performance and deformable class to bear the expected loads the area is subject to. (**CermiPlus**)

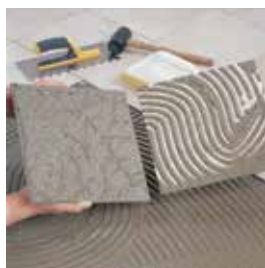


TILE FIXING



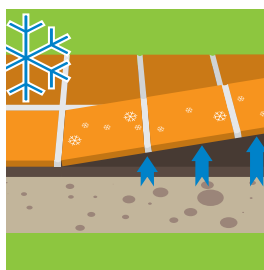
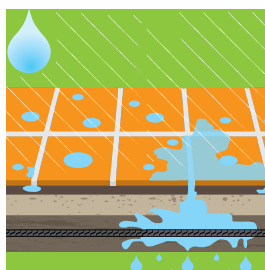
Any area of the tile that has no contact on the substrate and has voids is vulnerable when subjected to a localized load. These fragile points will let cracks and crashes of the covering.

- For the tile to correspond the loading homogenously on all tile area, full contact of the adhesive on the substrate is required. For even distribution of the adhesive on the substrate with a full contact (for full spreading of the adhesive on tile back) performance, adhesive should have good workability features (easy spread and applied) when applied with a suitable notched trowel.



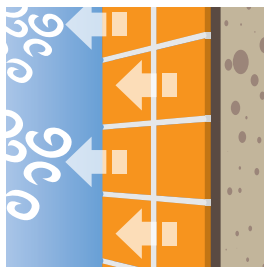
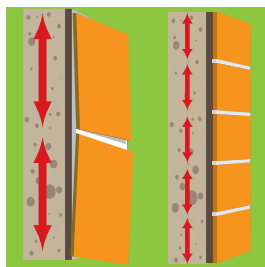
All substrates and covering systems will shrink and expand naturally due to temperature fluctuations and humidity. Particularly, when seasonal temperature changes are severe, shrinkage and expansion will exacerbate. In case of outdoor pool and terraces; the water seeped under the covering may freeze in cold weathers. This will cause volume expansion and therefore tension under the covering. Tension may cause delaminating, cracking or deformations of the covering.

- The adhesive should be flexible type to absorb the amount of movements with a high performance adhering ability. Additionally, the adhesive should have water repellent property in order to resist the corrosive effects of water.



Coverings on external facades are subject to wind loads. The tiles are sucked outwards from its substrate with forces occurring due to the blowing of the wind with varying amplitude.

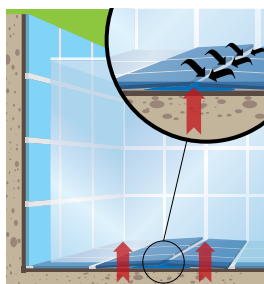
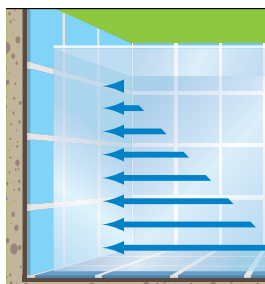
- Deflection and the tension forming between the substrate and covering will be exacerbated across each tile's width for large tiles when wind loads and thermal loads are subjected.



- In external facade tiling, the adhesive must be high performance and deformable class to bear the expected wind and thermal loads the area is subject to, while ensuring that enough fixing strength is provided to resist gravity loads of tiles. **(CermiPlus XL)**

In pools and water tanks movements occur due to water pressure varying with weight water.

- Once the pool or water tank is filled, there will be some movement due to the effect of water pressure on the walls and the overall weight of water in the pool. When the pool is emptied inertial forces will be formed on the pool walls and base. These movements will cause tension in the covering system. If tiles crack or blow away from their base under tension, the pool shell will be exposed to the corrosive effects of water.



- The bonding strength of the adhesive must not be affected by the movements caused by opposite forces. High performance, flexible and water resistant adhesives should be selected particularly developed for pool tiling. **(CermiPool)**

TILE FIXING

Tiling onto under floor heated systems; the tiles usually have a lower coefficient of thermal expansion. For a given temperature rise tiles will expand less than the substrate and stresses will be formed at the interface between the tile and the adhesive. At weak bonded parts, the tiles may delaminate or blow away from their base. Same rule applies for the substrates on heat transmitting systems and insulation applications.

- In these typical applications, the adhesive should be high performance class providing flexibility enough to work compatible to the movements occurring in the substrate. (**Cer-miGranit, CermiPlus**)

Colour and porosity of the tile:

In fixing transparent and light colored tiles and natural stones, particularly when they are highly porous, the covering material may absorb the adhesive. This causes the formation of stain and shades visible on the covering surface.

- A sample application should be carried to observe the possibility of the formation of stain and shades. In case, white coloured adhesive should be used.

Time to put into service:

In case of renovation and repair works, tiling may be aimed to be completed in fast.

- Fast setting adhesives provide set times as low as 3 hours compared minimum set time of 24 hours in regular adhesives.
- The adhesive performance class should be chosen according to the tile format and technical requirements.

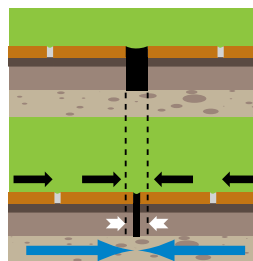
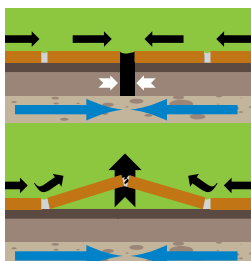
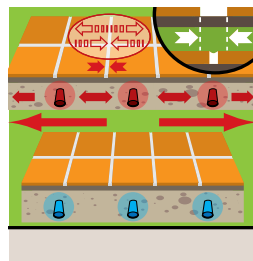
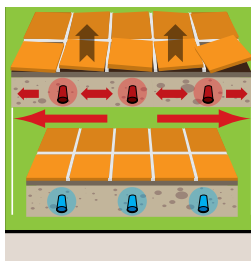
Use of expansion joints:

The tension formed between the covering and the substrate due to thermal and mechanical loads should be absorbed by use of deformable and flexible type adhesives.

- When tiling on large areas (area > 6m x 6m), the adhesive may not be sufficient to absorb the tension singly. The continuity of the covering should be interrupted by using expansion joints to allow for slight movements and yet to release the tension formed on the covering system.

- Expansion joints should be laid where tiling meets other materials, along all internal corners (wall and floor intersections). Skirting should be fixed upon to the completion of tiling.

- No coatings or coverings should be applied on the existing dilatation zones and structural expansion joints in buildings. These zones should be insulated by using proper profiles or mastics.



TILE FIXING



Expansion joints should have minimum width of 6-10 mm. Expansion joints should be insulated by using proper profiles or mastics. Cementitious joint fillers are not appropriate for expansion joints. (**Cermitape FPO and Cermitthane**)

- In use of mastics; to save in the amount of mastics to use, the expansion joints are recommended to be first filled with polyethylene elastic filaments with suitable sizes. Then, the mastic should be applied into the joint as well as leveled to the covering.

- If there exist any expansion joints on the floor, artificial expansion joints should be created. Before laying the covering, cold joints should be formed on the screed within rectangular areas of minimum 4 m x 4 m (for large sized tiles up to 8 m x 8 m) with minimum depth of 1 cm. Spiral or concrete cutting machines can be used for forming the joints.

- No coatings or coverings should be applied on the existing dilatation zones and structural expansion joints in buildings. These zones should be insulated by using proper profiles or mastics.

- Expansion joints should be insulated by using proper profiles or mastics. Cementitious joint fillers are not appropriate for expansion joints.

APPLICATION



- For a smooth and homogenous paste, it is recommended to use a low cycled electrical drill-mixer for mixing.

- For adhesives with T – reduced slip, the paste should be in a consistence such that it does not flow when handled with a trowel.

- The paste should rest for 5 minutes prior to application and should be applied after remixing.

| SIZE OF NOTCHED TROW | COVERAGE | APPLICATION METHOD |
|----------------------|----------------------|----------------------------------|
| U6 (6x6x6) mm | 3-4 kg 3.5-4.5 kg | Single Bonding Double Bonding |
| U9 (9x9x9) mm | 4-5 kg 5-6 kg | Single Bonding Double Bonding |

Mixing of the adhesive:

C class - cement based powder adhesive is mixed with a specific amount of water or some other liquid to use.

- Do not add more or less water into the mixture than it is specified on the technical legends on the product packaging or technical data sheets.

- Two components adhesive (including one component as the powder and one another as the liquid) is mixed in amounts of the components as specified on the technical legends on the product packaging or technical data sheets.

- The components are mixed (gradually add powder to the clean water or liquid component) to a smooth and homogenous paste in a bin.

D class - acrylic dispersion based paste adhesive is ready for use. Do not add any of water or other additives into the paste.

Fixing tiles:

Apply the adhesive on the substrate with a suitable notched trowel to achieve the required bed thickness.

- Use of notched trowel provides even spreading of the adhesive on tile back ensuring the required bed thickness.

- The type and size of the notched trowel to be selected varies according to the tiling purpose and tile format. In general, when fixing large sized tiles and the tiled area will be exposed to heavy loads, large sized notched trowel should be selected.



TILE FIXING

According to the size of the tiles, fix tiles with either single buttering method (the adhesive is buttered on the substrate) or double buttering method (for tile sizes > 40x40 cm, adhesive should be buttered onto the tile back as well). The tiles must be fixed within the open time of adhesive and pressed on with a twisting and sliding action to achieve a good contact.

- Double buttering method provides full contact of the tile on the substrate.

- Glass tiles, natural stones and marbles should be fixed with double buttering method. (Consumption increases by 30-40%)

The tile should be gently hammered with a rubber hammer in order to provide the stability of bonding and the adhesive to spread and fully cover the tile back.

- Any area of the tile that has no contact on the substrate and has voids is vulnerable when subjected to a localized load. These fragile points will let cracks and crashes of the covering.

- Lift an occasional tile after fixing to verify that the required contact is being achieved.

- The irregularities, pores or roughness on tile back should be completely filled with adhesive when applied with double buttering method.

Precautions:

- In fixing transparent and light colored tiles and natural stones, a sample application should be carried to observe the possibility of the formation of stain and shades. In case, white coloured adhesives should be used.

The tiles should be fixed within the specified open time of the adhesive.

- The open time will be shortened for applications with inconvenient conditions (due to high ambient temperatures, dry air and strong wind and fixing onto high porosity substrates). The open time may extend in lower temperatures and/or high humidity conditions, or when tiling onto impervious or sealed surfaces.

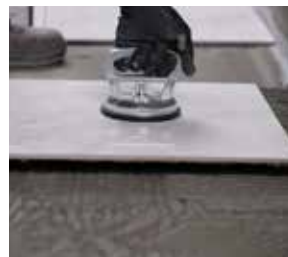
- Fixing after wetting the dried adhesive surface is not applicable. The dried adhesive must be removed from the substrate and new adhesive should be reapplied.

- Wetness on the surface of the adhesive should be tested by touching in case of early setting. If the adhesive does not get on the fingers, it means that the open time has expired.

- The adhesive has a specified pot life. Dried adhesive should be disposed and new adhesive should be mixed. Do not add more water into the dried adhesive to provide a consistent paste, it is not applicable.

- Grouting must be done after the adhesive fully completes its initial set. Setting time may change due to application conditions, adhesive characteristics and application area. During setting phase, the covering should be protected from loadings, direct sunlight, frost and rain.

- Application on hot surfaces and during sunny and/or windy weather is not recommended. The substrate should have no risk of freezing.





JOINT FILLER APPLICATION

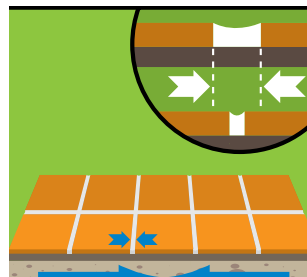


FUNCTIONS OF A JOINT FILLER

The joint filler used in filling tile joints has mainly two distinct functions:

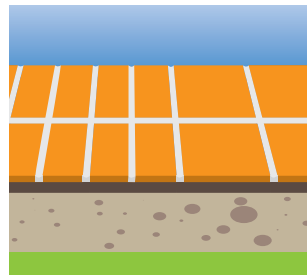
Physical function.

- Protects the tile covering and its base against abrasion, and corrosive effects of water and liquid chemicals.
- It compensates the movements and absorbs the stress formed on the covering by thermal and mechanical effects.



Decorative function.

- Varying wideness of the joint allows flexibility in covering design.
- It yields a unified outlook of the covering by compensating the size variations of tiles.
- Wall and floor coverings with different formatted tiles are combined by joints.
- Colour options for joint fillers provide decorative fertility.



EN 13888 STANDARD

EN 13888 Standard identifies the test and performance criteria to classify the joint fillers used in filling tile joints. According to the standard, the joint fillers are classified by their performances.

Tile grouts are categorized according to their chemistry and these categories are abbreviated by letters of the alphabet:

CG Cement Based

- Cement based powder joint filler is mixed with a specific amount of water or some other liquid to use.

RG Reactive Resin Based

- Two or more components of the joint filler (including one component as the resin and one another as the hardener) are mixed in specific amounts to use.

JOINT FILLER APPLICATION

The joint filler in one of the chemistry categories is classified into one the two performance classes according its performance level in defined tests:

Class 1

- (Normal) **Standard Performance** joint filler. It validates the minimum required performance level in tests.
- It is suitable for standard applications requiring no special performance.

Class 2

- (Improved) **High Performance** joint filler. It validates higher performance levels in comparison to standard performance adhesives.
- It is suitable for applications with types of works subject to coercive environmental forces requiring special performance.

Primary Technical Performance Requirements

| | |
|------------------------------------------|---------------------------|
| Abrasion resistance | $\leq 2000 \text{ mm}^3$ |
| Bending strength | $\geq 3,5 \text{ N/mm}^2$ |
| Bending strength (freeze-thaw cycle) | $\geq 3,5 \text{ N/mm}^2$ |
| Compressive strength | $\geq 15 \text{ N/mm}^2$ |
| Compressive strength (freeze-thaw cycle) | $\geq 15 \text{ N/mm}^2$ |
| Shrinkage | $\leq 2 \text{ mm/m}$ |
| Water absorption (after 30 minutes) | $\leq 5 \text{ g}$ |
| Water absorption (after 240 minutes) | $\leq 10 \text{ g}$ |

CG1

Additional Technical Performance Requirements (in addition to CG1)

| | |
|--------------------------------------|--------------------------|
| Extra-high abrasion resistance | $\leq 1000 \text{ mm}^3$ |
| Water absorption (after 30 minutes) | $\leq 2 \text{ g}$ |
| Water absorption (after 240 minutes) | $\leq 5 \text{ g}$ |

CG2

Technical Performance Requirements

| | |
|--------------------------------------|--------------------------|
| Abrasion resistance | $\leq 250 \text{ mm}^3$ |
| Bending strength | $\geq 30 \text{ N/mm}^2$ |
| Compressive strength | $\geq 45 \text{ N/mm}^2$ |
| Shrinkage | $\leq 1,5 \text{ mm/m}$ |
| Water absorption (after 240 minutes) | $\leq 0,1 \text{ g}$ |

RG



JOINT FILLER APPLICATION

REQUIRED - ESSENTIAL FEATURES FOR A TILE GROUT

Below are the features of a joint filler when it is wet, during application and before it hardens:

- **Workability** (easy application and good spreading performance of the joint filler).
- **Water retention capacity** (for sufficient hydration and bonding performance of the cement based joint filler even on high porosity surfaces).
- **Reduced flow** (non-flowing of the joint filler ensuring fast and efficient wall tiling).
- **Wetness capability** (on the substrate and tile back).
- **Sufficient workability time.**

Below are the features of a joint filler after it hardens and completes its curing:

- **High bonding performance** (on the tile and the substrate).
- **High deformability** (the joint filler should absorb the stresses and compensate the movements forming between the substrate and the tiling layer in fluctuating thermal conditions).
- **Reduced water absorption** (water repellent feature and better imperviousness) (reduced coloring and efflorescence risk, improved color stability provided by hydrophobic dispersion additives).
- **Improved abrasion resistance** (robustness) (high resistance to physical effects and chemicals).

FACTORS AFFECTING TILE GROUT SELECTION

Surface absorptivity of the tile (water permeability):

When the joint filler contacts with tile sides, it engages physically with small irregularities, pores (absorbed by the tile and substrate with capillary forces) etc. in the surface and forms a strong bond when joint filler sets in those pores, resulting in a mechanical keying action to bond.

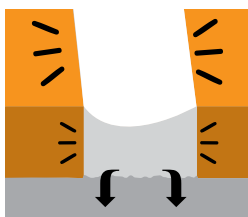
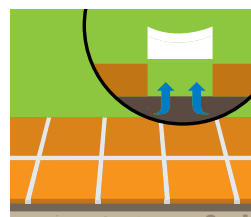
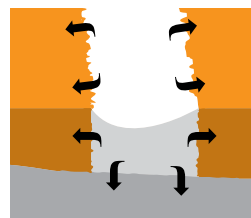
- Tiles with different formats such as glass, marble, ceramic or porcelain may have different surface absorptivities (water permeability).

- Bonding of the joint filler onto impervious surfaces (of the substrate or tile sides) with a sufficient adherence performance is yielded by chemical additives named polymers (organic resins). Polymers provide the physical bonding of the adhesive.

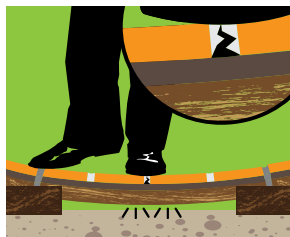
- To provide improved bonding, tile may be produced with irregularities, pores or roughness on the sides.

- Indoors, tiles, floor tiles, etc. with a water absorption rate greater than 3%. Standard performance joint filler is sufficient for coating materials. (**CermiJoint 1-6 Extra**) Porcelain ceramics with low water absorption rate, etc., in harsh conditions, outdoors, on floors exposed to heavy pedestrian traffic. High performance joint fillers should be preferred in coating materials. (**CermiJoint Flex**, **CermiJoint 2-10 HRC**)

- Reactive resin based tile grout bond with much higher strength into the joint and provide very high technical performance in comparison to cement based tile grout. (**CermiJoint Eposol Pro**)



JOINT FILLER APPLICATION



Flexible substrates:

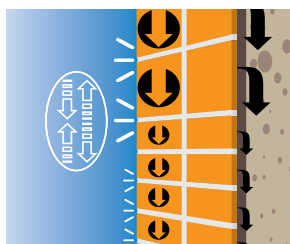
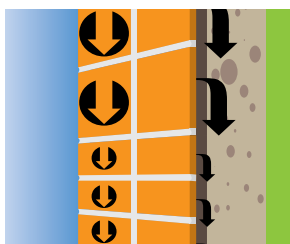
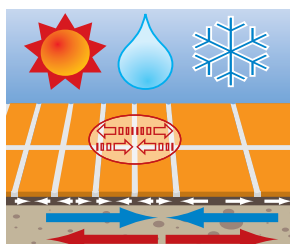
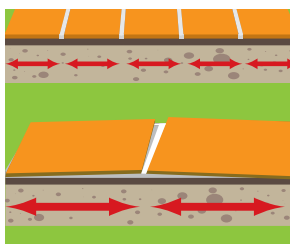
Wooden floors and pannels, gypsum boards may move or flex when exposed to loading (stepped on or pressed), which will cause instability of the covering leading to disbonding and cracking problems. Before tiling application, the loose boards or parts should be replaced, pannels laid on joists or battens should be reinforced and fixed to stabilize.

- When tiling onto flexible substrates, covering system and the substrate should deflect in conformity according to the load applied. The tile grout should be flexible to absorb the amount of movement or in mismatch joints will either delaminate or crack. **(CermiJoint Flex)**

Covering material size and weight:

Deflection and the tension forming between the substrate and covering will be exacerbated across each tile's width for large tiles.

- When tiling middle and large sized (>40x40 cm) tiles, flexible tile grouts with high performance should be selected to maintain required flexibility to absorb the tension and movement between the tiles. **(CermiJoint Flex)**



In vertical tiling applications, tile weight per m² is critical.

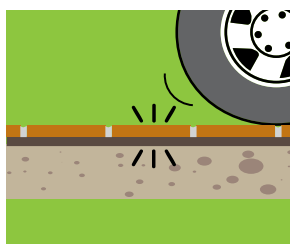
- Heavy tiles may sag by gravity effect and squeeze the underlying tile. In a very rigid covering system, the underlying tile may not resist the sagging load of the upper tile and delaminate from the substrate.

- Large tiles have less joint area to absorb the movements occurring on the covering.

Area of use:

For areas exposed to light pedestrian traffic, standard performance tile grouts provide the required technical performance.

- The floors of public places (hospitals, malls, and public buildings) and industrial areas (factories, warehouses) are exposed to heavy loads such as pedestrian or vehicle traffic. Loads will create pressure and vibration on the covering.

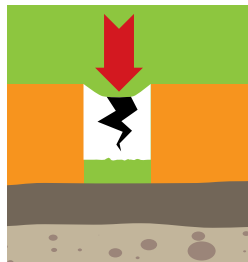


- The tile grout must be high performance class with flexibility to bear the expected loads the area is subject to. **(CermiJoint Flex / CermiJoint Eposol Pro)**

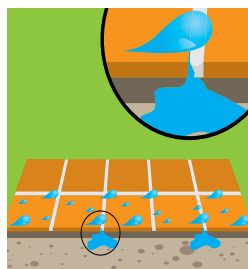
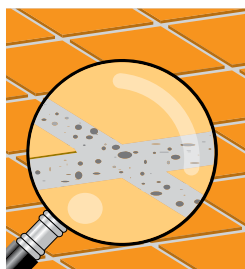
JOINT FILLER APPLICATION

Any area of the tile grout that has no contact on the substrate and has voids under is vulnerable when subjected to a localized load. These fragile points will let cracks.

- For the tile grout to correspond the loading homogenously on all along covering area, full filling of the grout joint is required.



In areas such as auto services, food factories, laboratories and etc. where the covering is exposed to various chemicals, epoxy resin based grouts providing very high resistance to chemicals should be used for tile grouting. (**CermiJoint Eposol Pro**)



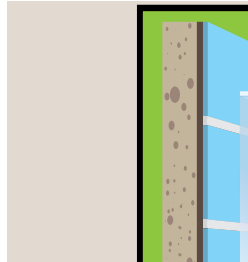
In case of outdoor pool, terrace, balcony and facade tiling; all substrates and covering systems will shrink and expand naturally due to temperature fluctuations and humidity. Particularly, when seasonal temperature changes are severe, shrinkage and expansion will exacerbate. Tile grouts in such applications will also be exposed to the vulnerable and corrosive effects of rain, snow, freeze, UV and etc.

- The tile grout should be flexible type to absorb the amount of movements with a high performance bonding ability. Otherwise, water seeps through the grout cracks under the covering and may freeze in cold weathers. This will cause volume expansion and therefore tension under the covering. Tension may cause delaminating, cracking or deformations of the covering. (**CermiJoint Flex**)



In pools and water tanks movements occur due to water pressure varying with weight water.

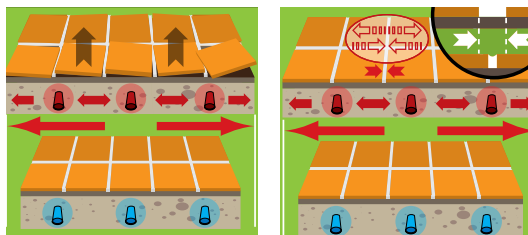
- Once the pool or water tank is filled, there will be some movement due to the effect of water pressure on the walls and the overall weight of water in the pool. When the pool is emptied inertial forces will be formed on the pool walls and base. These movements will cause tension in the covering system. The bonding strength of the tile grout must not be affected by the movements caused by opposite forces. If tile grouts crack or blow away from their base under tension, the pool shell will be exposed to the corrosive effects of water.



- Tile grouts particularly developed for pool tiling with high performance, flexibility, water repellency and resistance to pool cleaning chemicals should be selected in pool tiling. (**CermiJoint HRC**)

- Epoxy resin based joint fillers with high resistance to corrosive chemicals and abrasion should be selected particularly in applications of olympic pools (exposed to high water pressure and frequent use of corrosive pool cleaning materials) and in the pools of industrial facilities (exposed to constant acidic liquid contact) and thermal pools (exposed to very strong thermal effects). (**CermiJoint Eposol Pro**)

JOINT FILLER APPLICATION



Tiling onto under floor heated systems; the tiles usually have a lower coefficient of thermal expansion. For a given temperature rise tiles will expand less than the substrate and stresses will be formed between the tiles and the substrate. In such a case, the tile grout should absorb the tension and the movements occurring between the tiles. Otherwise, the tiles may delaminate or blow away from their base. Same rule applies for the substrates on heat transmitting systems and insulation applications.

- In these typical applications, the tile grout should be high performance class providing flexibility enough to work compatible to the movements occurring in the substrate. (**CermiJoint Flex**)

APPLICATION (CG CLASS – SINGLE COMPONENT / CEMENT BASED)

Surface preparation:

- Joint filler should start after the adhesive has set and dried. Instructions of the adhesive producer should be followed. Joint filler's colour may taint due to adhesive's cement content and colour.
- The joints and tile surface must be clean in order to ensure the joint filler bonds properly. Surfaces should be clean and free from dust, dirt, grease or any other contaminating barrier.
- Ensure that the tiles are firm.
- Joints on high porosity substrates or surfaces (ie, gypsum plasters or non-glazed tiles) should be wetted before grouting.
- The surfaces exposed to direct sunlight and have a surface temperature above +35 °C must be cooled by damping. If not, early shrinkage causing cracks will occur due to immediate mixing water loss by evaporation.

Mixing of the joint filler:



CG class - cement based powder joint filler is mixed with a specific amount of water to use.

- For a smooth and homogenous paste, it is recommended to use a low cycled electrical drill-mixer for mixing.
- The paste should be in a consistence such that it does not flow when handled with a trowel.
- The paste should rest for 5 minutes prior to application and should be applied after remixing.

- Do not add more or less water into the mixture than it is specified on the technical legends on the product packaging or technical data sheets.
- The paste should rest for 5 minutes prior to application and should be applied after remixing.
- Do not add more water than specified to get a fluid form or extend pot life (working time).
- The components are mixed (gradually add powder to the clean water) to a smooth and homogenous paste in a bin.

Application:



Fill the joint filler in the joints completely with a suitable squeegee or a rubber float leaving no voids.

- Remove the excess joint filler immediately using a rubber float moved diagonally (at 45°) across the tiles before it hardens.
- If moved parallel to the tiles the joint filler within the joints may be removed causing a deformed grout surface.
- Work on a small area at a time. Be particular about tiles with soft surface which can be scratched during grouting.

- Always follow the same direction across tiles when applying the joint filler.

JOINT FILLER APPLICATION

Cleaning:

Time for cleaning the excess joint filler from tile surface is when the grout has started to dry.

- Time is 10-15 minutes in moderate conditions, but it may vary due to ambient conditions (ambient temperatures, humidity and etc.).

- Exact time may be determined by touching the joint filler. When the material slightly gets on the finger, cleaning phase should start immediately.



- To clean the tiles use a dampened cleaning pad or sponge. Use only clean and non-chalky water to dampen the pad or sponge.

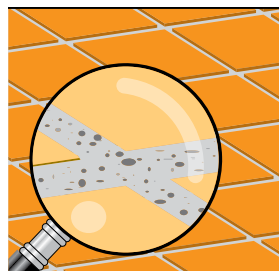
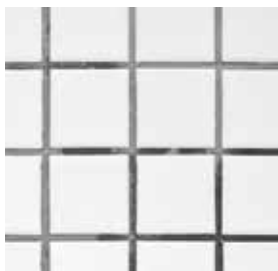


- Move the pad or sponge diagonally (at 45°) or in circular motion across the tiles in order not to cause any deformations. Continue wiping the tiles until all residues are moved.



- Wet cleaning will cause the set grout to be weak, discrete holes and grains on grout surface, and surface discolouration and variation which will be more noticeable with darker grouting colours.

- In case of cleaning earlier or later, yet wet or hardened grout residues may deform the grouts and cause scratches and colour variations on grouts surface.



Final cleaning to remove the joint filler residues should be done when dry (in 1 day at a the very latest). The tiles should be cleaned and polished with a clean and dry cloth.

- The residues on tiles are cleaned gently with the cloth in circular motion. Continue wiping the tiles until all residues are moved.



JOINT FILLER APPLICATION



- If any residues remain after final cleaning, wait for 10 days and treat the tiles with acidic content tile cleaning material to loosen and remove these residues. (**Cerminet**)



APPLICATION (RG CLASS-TWO COMPONENTS/EPOXY RESIN BASED)

Mixing of the joint filler:



RG class – epoxy resin based joint filler is prepared by mixing of the two components (Component A – epoxy resin and Component B – hardener) with a specific mixing rate to use.

- For a smooth and homogenous paste, it is recommended to use a low cycled electrical drill-mixer for mixing.
- The paste should be in a consistence such that it does not flow when handled with a trowel.

- Do not add any water or other additives into the mixture than it is specified on the technical legends on the product packaging or technical data sheets, and conform to the mixing rate of the components.

- Do not add more or less of the components than specified to get a fluid form or extend pot life (working time). Do not add water.

- Gradually add the entire hardener component (component B) to the epoxy resin component (component A) in a bin, and mix to a smooth and homogenous paste with a uniform colour for at least 3 minutes.

JOINT FILLER APPLICATION

Fill the joint filler in the joints completely and thoroughly with a hard rubber float or steel trowel leaving no voids. Work on a small area at a time.

- Epoxy joint filler should not be spread on tiles as cement-based products. Once the epoxy hardens, it will be very difficult to remove the material residues on tiles. Besides, this application method will provide savings in quantity and easiness in cleaning.

- Remove the excess joint filler immediately using a rubber float moved diagonally (at 45°) across the tiles before it hardens. If moved parallel to the tiles the joint filler within the joints may be dragged from the joints causing a deformed grout surface. Always follow the same direction across tiles when applying the joint filler. If the joints are wide, particular care is required.

- Clean water should be used for cleaning process.

- Use cleaning pads, particularly designed for epoxy grouting works. As the first phase of cleaning process, select a thick textured pad for rough cleaning. Move the pad in circular motion across the tiles in order not to cause any deformations.

- In the second phase of cleaning process, select a thin textured pad for smooth cleaning and apply as described above.

- Final cleaning and rinsing should be done with a damp sponge. Use only clean and non-chalky water to dampen the pads and sponge.

- Move the sponge diagonally (at 45°) or in circular motion across the tiles in order not to cause any deformations. Continue wiping the tiles until all residues are moved.



JOINT FILLER APPLICATION

PRECAUTIONS



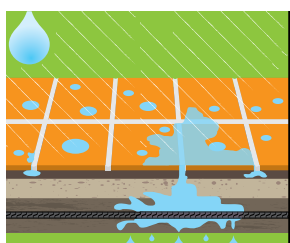
Jointed surfaces must be protected for at least 24 hours from direct sunlight, frost and rain.

In fixing transparent and light colored tiles and natural stones, particularly when they are highly porous, the covering material may absorb the joint filler. This causes the formation of stains and colourations visible on the covering surface.



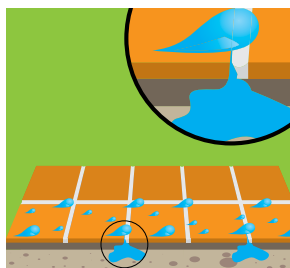
Joint fillers contain colour pigments which activate with mixing.

- For powder (cement based) joint fillers; the colour of the powder form may be in very light colours than the expected final colour.



Before tiling applications in industrial floors, auto services, food factories and etc. the acid and alkali content of the conditions the covering will be exposed to should be determined thoroughly. The chemicals contacting with tile grouts may have hazardous effect, and a pre-testing of grout resistant should be held. Particularly, in tiling application in milk and dairy product factories, it is recommended to consult joint filler producer for technical advice.

- Common cleaning materials like bleach, lime remover and etc. may cause surface discolouration and colour variation. Cleaning of tile grouts should be done with appropriate materials.



JOINT FILLER APPLICATION

Necessary expansion joints should be left considering the thermal stresses and mechanical loads (pedestrian traffic, additional loads) that may occur in the floors due to temperature changes. Suitable dilatation profiles or joint sealants should be used for these joints. (**Cermi Tape FPO and Cermithane**)



Efflorescence effect:

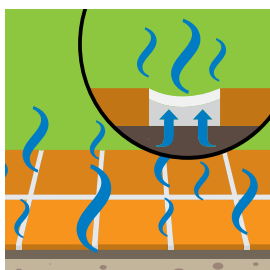
In case of a false grouting application of the cement based joint filler, discrete holes and grains on grout surface, and surface discolouration and variation which will be more noticeable with darker grouting colours will form.

- As the excessive mixing water of the grout or adhesive will dry through the grout, the water will carry dissolved salts (as by product of the hydration process of cement and water) and cause a white deposit on the surface of the grout, known as efflorescence (whitening)

The efflorescence effect may exacerbate with increased amount of the drying water.

- Efflorescence can sometimes happen anyway but chances are increased if more water is dried through the grout. If the joints are grouted before the drying of the adhesive is complete, water will be trapped. Trapped water will increase drying water amount.

- Wet joint filler mixed with more water than specified, using a wet sponge for cleaning in grouting application or exposing of the grout surface to water very soon after application, all these conditions will increase the amount of water dried. Thus, possibly the efflorescence effect will be exacerbated.







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Carpark Flooring
58

Epoxy Self Leveling Flooring System
59

Elastic PU Coating System
60

9 External Thermal Insulation Composite Systems
61

WATERPROOFING AND TILING IN WET AREAS



1

CONCRETE-SCREED



2

CERMIMORTAR 3-20
Cement based, coarse grained, surface smoothing and repair mortar



3

CERMIFILM
Synthetic resin-based, ready-to-use primer



4 1st Layer 4 2nd Layer

CERMIPROOF SF
Cement-based, two-component, semi-elastic, waterproofing material



5

CERMITAPE PAH BANDI
Thermoplastic elastomer-based (TPE), waterproofing tape for wall-floor joints



6

CERMIGRES
Cement-based, high performance, non-slip, extended working time



7

CERMIJoint 0-3 FLEX
Cement-based, high-performance, elastic, silicone-added, thin-filled joint filler.
or
CERMIJoint 3-10 FLEX
Cement based, high performance, silicone added elastic joint filler.



8

CERMISIL AS
General purpose, hygienic, acetic silicone sealant.

TILING ON FLOORS (EXPOSED TO HEAVY FOOT TRAFFIC)



1

CONCRETE / SCREED



2

CERMIFILM

Synthetic resin-based, ready-to-use primer



3

CERMIPLUS XL

Cement based, high performance, non slip, extended working time, S2 class very elastic adhesive mortar.

or
CERMIPLUS

Cement-based, high performance, nonslip, extended working time, S1 class elastic adhesive mortar



4

CERMIJOINT 0-3 FLEX

Cement-based, high-performance, elastic, silicone-added, thin-filled joint filler.

or

CERMIJOINT 3-10 FLEX

Cement based, high performance, silicone added elastic joint filler.

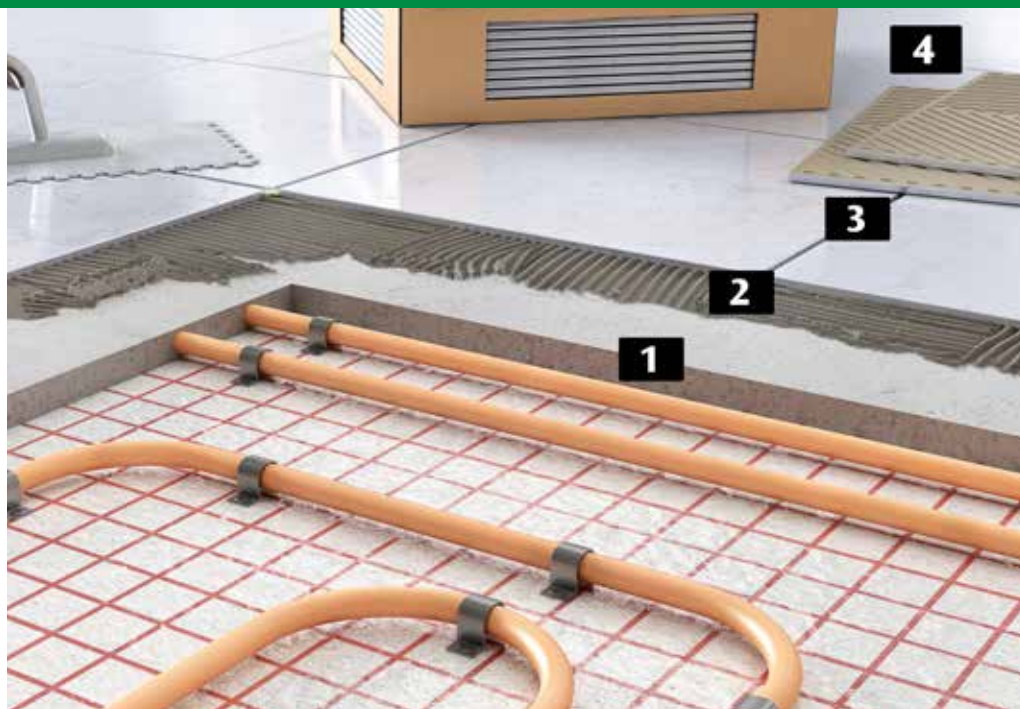


5

CERMITAPE FPO

Flexible polyolefin (FPO) based dilatation and waterproofing tape.

TILING ON FLOOR HEATING SYSTEM



1

CERMIFLOOR 4-30
Cement-based,
self-leveling floor leveling
and preparation
screed.



2

CERMIGRANIT
Cement-based, high
performance, non-
slip, class S1 elastic
adhesive mortar.
or
CERMIPUS
Cement-based, high
performance, non-
slip,
extended working
time, S1 class elastic
adhesive mortar



3

CERMIIJOINT 0-3 FLEX
Cement-based, high-performance,
elastic, silicone-added, thin-filled
joint filler.
or
CERMIIJOINT 3-10 FLEX
Cement based, high performance,
silicone added elastic joint filler.



4

CERMITHANE
Polyurethane based
expansion and seal-
ing sealant

TILING ON EXISTING TILES



1

CERMIFILM PLUS
Synthetic resin-based, ready-to-use, filled primer for glossy surfaces.
or
CERMIFILM PLUS RAPID
Synthetic resin-based, ready-to-use, fast-drying filled primer for glossy surfaces.



2

CERMIPLUS
Cement-based, high performance, non-slip, extended working time, S1 class elastic adhesive mortar



3

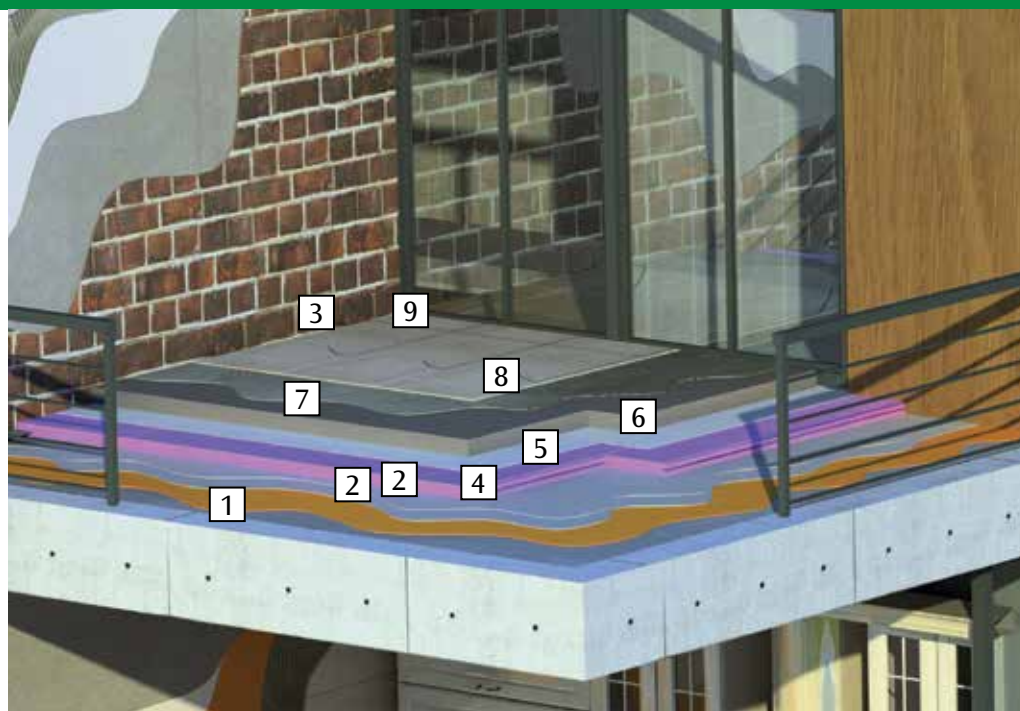
CERMIJOINT 0-3 FLEX
Cement-based, high-performance, elastic, silicone-added, thin-filled joint filler.
or
CERMIJOINT 3-10 FLEX
Cement based, high performance, silicone added elastic joint filler.



4

CERMITHANE
Polyurethane based expansion and sealing sealant

TILING ON BALCONIES



1

CERMIFILM
Synthetic resin-based,
ready-to-use primer



2

1st Layer 2nd Layer

CERMIPROOF FF
Cement-based, two-com-
ponent, elastic, water-
proofing material.



3

CERMITAPE PAH BANDI
Thermoplastic
elastomer-based (TPE),
waterproofing tape for
wall-floor joints

4

**XPS - THERMAL INSULATION
BOARD**

5

PROTECTING FELT

6

PROTECTING FELT



7

CERMIPLUS
Cement-based, high
performance, non-slip,
extended working time, S1
class elastic adhesive mortar



8

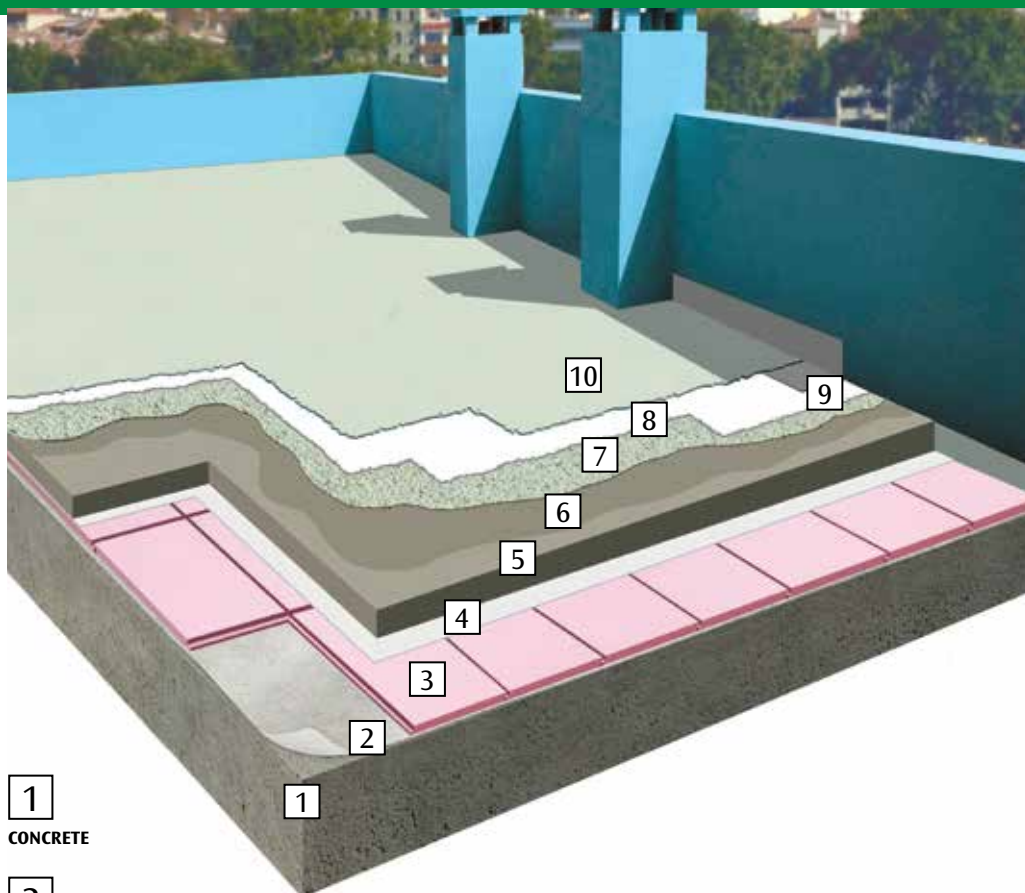
CERMIJOINT 0-3 FLEX
Cement-based, high-performance,
elastic, silicone-added, thin-filled joint
filler.
or
CERMIJOINT 3-10 FLEX
Cement based, high performance,
silicone added elastic joint filler.



9

CERMITHANE
Polyurethane based
expansion and sealing
sealant

TERRACE WATERPROOFING - NON TRAFFICABLE ROOF



1
CONCRETE

2
VAPOUR BARRIER

3
XPS THERMAL
INSULATION BOARD

4
PROTECTING FELT

5
REINFORCED
SLOPED SCREED



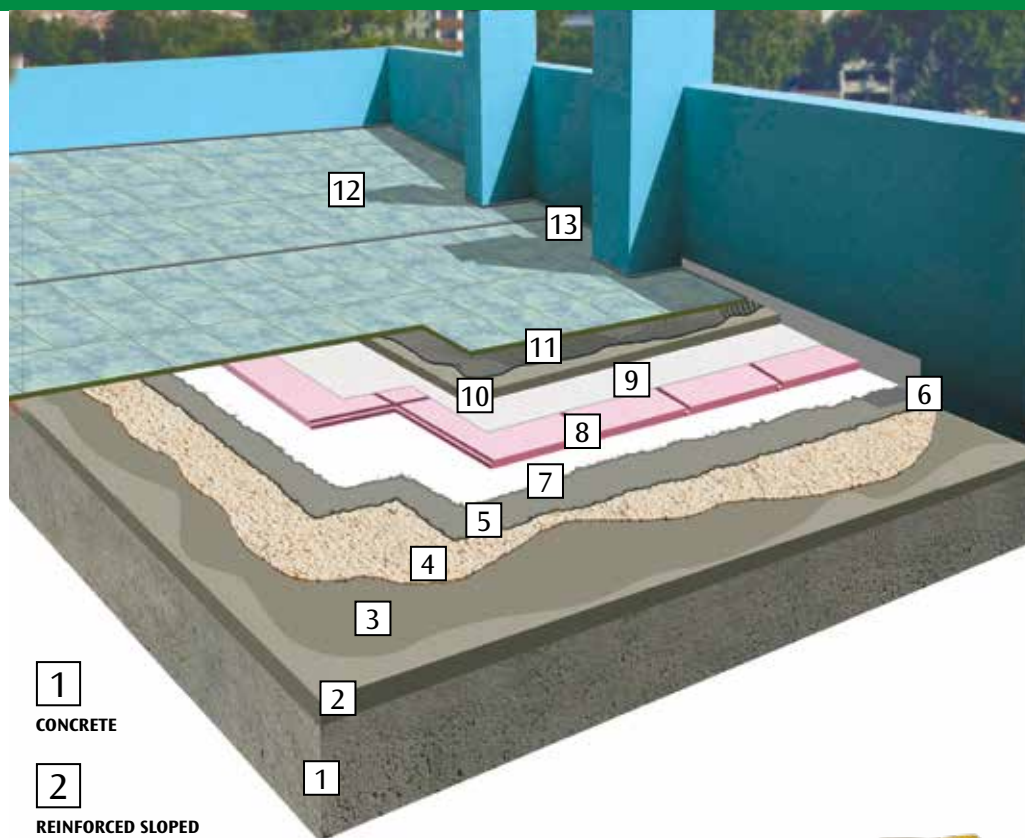
6
CERMIPRIME EPR 2C
Epoxy based, 2-component,
solvent-free, unfilled trans-
parent primer.
Or
CERMIPRIME PU
Polyurethane-based,
one-component, sol-
vent-containing primer and
impregnation material

8 1st Layer **10** 2nd Layer
CERMIPROOF PU
Polyurethane-based, one-
component waterproofing
material

7
Quartz sand
(0,100-0,300 mm)

9
CERMITAPE FPO
Flexible polyolefin
(FPO) based
dilatation and
waterproofing tape
CERMITHANE
Polyurethane based
expansion and
sealing sealant

TERRACE WATERPROOFING - TRAFFICABLE ROOF



1

CONCRETE

2

REINFORCED SLOPED
SCREED



3

CERMIPRIME EPR 2C
Epoxy based, 2-component,
solvent-free, unfilled trans-
parent primer.

Or
CERMIPRIME PU
Polyurethane-based,
one-component, sol-
vent-containing primer and
impregnation material

4

Quartz sand - Spread on
the layer (0,100-0,300 mm)



5

1st Layer

7

2nd Layer

CERMIPROOF PU 2C
Polyurethane-based,
one-component water-
proofing material



6

CERMITAPE PAH BANDI
Thermoplastic elasto-
mer-based (TPE), water-
proofing tape for wall-floor
joints.



11

CERMIPLUS
Cement based, high
performance, non
slip, extended working
time, S1 class elastic

8

**XPS THERMAL INSU-
LATION BOARD**

9

PROTECTING FELT

10

PROTECTING SCREED



12

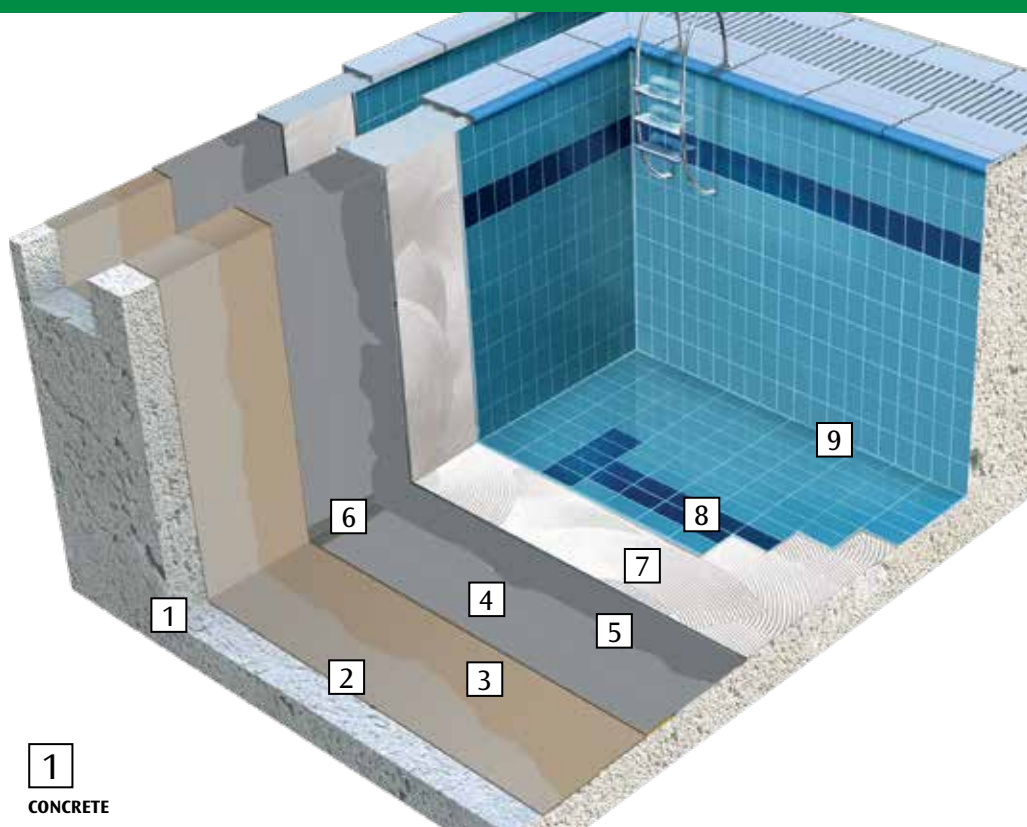
CERMIJOINT EPOSOL PRO
Epoxy resin based, high perfor-
mance, two component joint filler
or
CERMIJOINT 3-10 FLEX
Cement based, high performance,
silicone added elastic joint filler

13

CERMITHANE
Polyurethane based
expansion and seal-
ing sealant



WATERPROOFING AND TILING OF POOLS



1
CONCRETE



2
CERMIMORTAR 3-20
Cement based, coarse grained, surface smoothing and repair mortar



3
CERMIFILM
Synthetic resin-based, ready-to-use primer



4 1st Layer **5** 2nd Layer
CERMIPROOF FF PLUS
(Two component, cement based, full elastic, waterproofing material)



6
CERMITAPE PAH BANDI
Thermoplastic elastomer-based (TPE), waterproofing tape for wall-floor joints.



7
CERMIPOOL
Cement based, high performance, specially developed for pools, water repellent, slip S1 class elastic adhesive mortar with extended working time.



8
CERMIJoint 2-10 HRC
(Cement based, special, flexible joint filler)
or
CERMIJoint EPOSOL PRO
(Epoxy resin based joint filler)



9
CERMITHANE
Polyurethane based expansion and sealing sealant

WATERPROOFING AND TILING OF WATER-TANKS



1

CONCRETE



2

CERMIMORTAR 3-20
Cement based, coarse grained, surface smoothing and repair mortar



3

CERMIFILM
Synthetic resin-based, ready-to-use primer



4

1st Layer

4

2nd Layer

CERMIPROOF FF PLUS
Cement-based, 2-component, fully elastic, waterproofing material.



5

CERMITAPE TPE
Thermoplastic elastomer-based (TPE), waterproofing tape for wall-floor joints.



6

CERMIPPOOL
Cement based, high performance, specially developed for pools, water repellent, slip S1 class elastic adhesive mortar with extended working time.



7

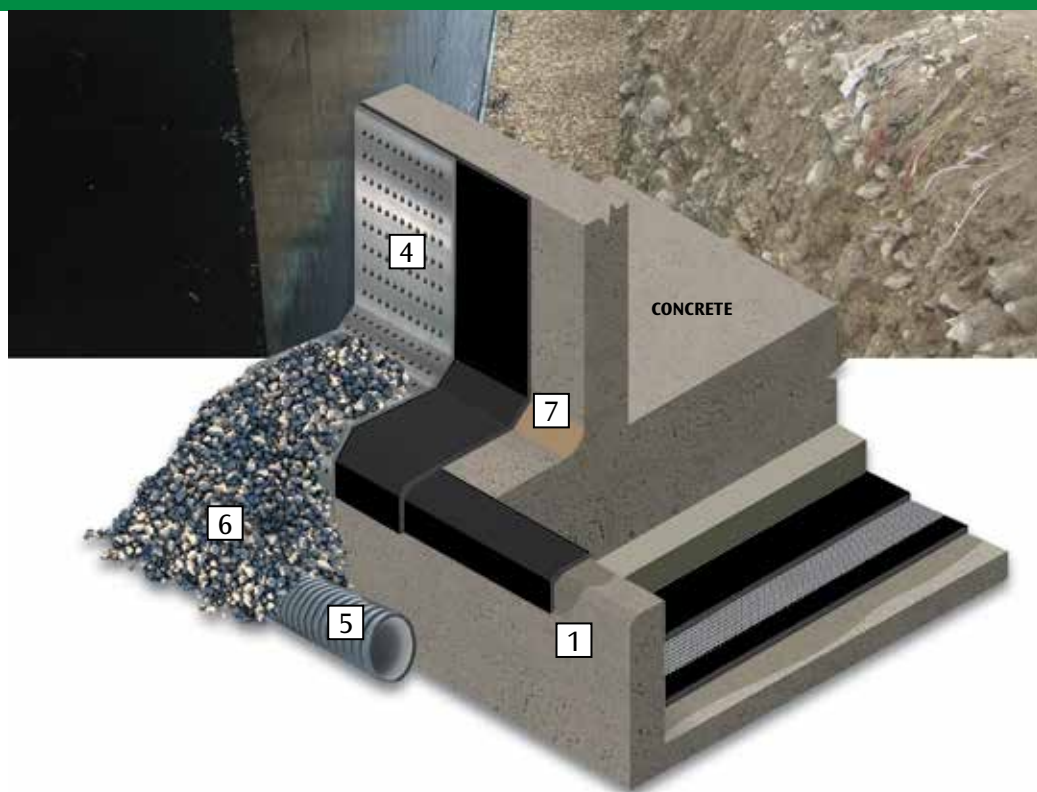
CERMIIJOINT 2-10 HRC
Cement based, high performance, elastic joint specially developed for pools filling.
or
CERMIIJOINT EPOSOL PRO
Epoxy resin based, high performance, two component joint filler.



8

CERMITHANE MS
MS polymer based, neutral, solvent free expansion and sealing sealant.

BASEMENT WATERPROOFING



1

Primer Layer
CERMIPROOF BITUM 2C
(diluted 1:3 or 1:5 of water)



2

1st Layer



3

2nd Layer

CERMIPROOF BITUM 2C
Bitumen-rubber based, polymer modified, solvent-free, 2-component waterproofing material.
or
CERMIPROOF BITUM PLUS 2C
Bitumen-rubber based, polymer modified, solvent-free, 2-component waterproofing material

4

DRAINAGE PANEL

5

DRAINAGE PIPE

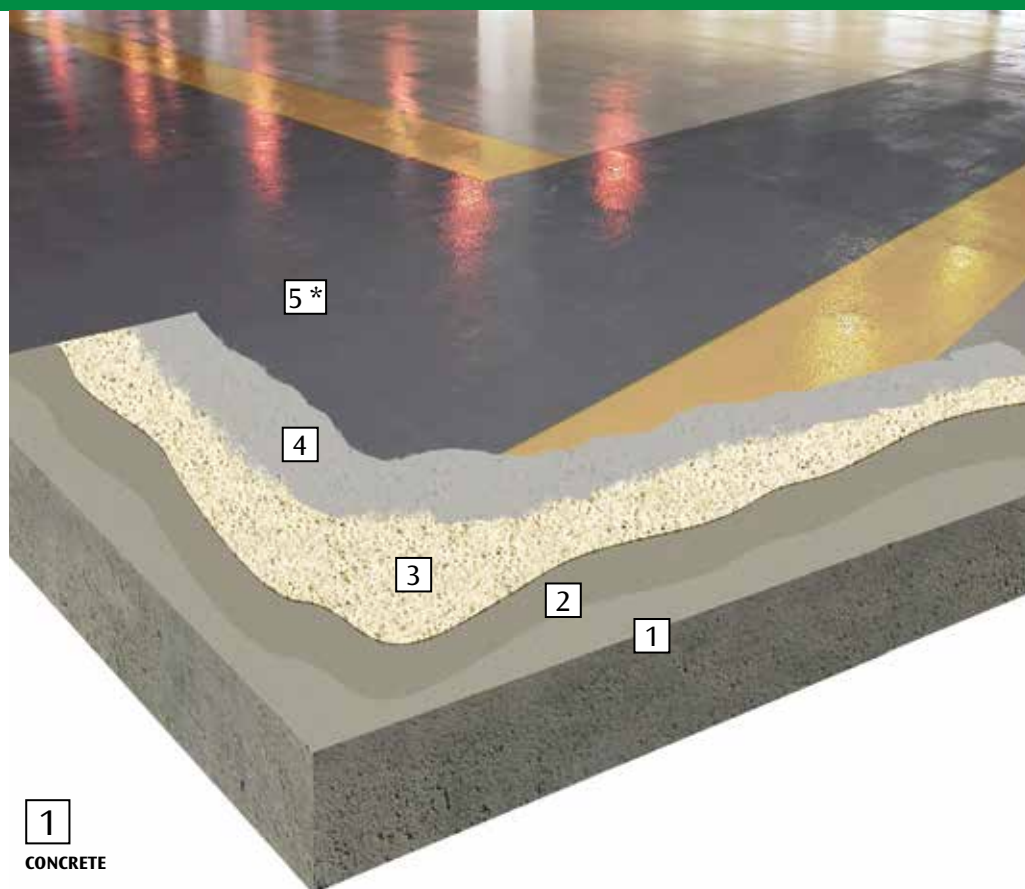
6

STONE FILLER

7

CORNER FILLING

CARPARK FLOORING



1

CONCRETE



2

CERMIPRIME EPR 2C
Epoxy based, 2-component,
solvent-free, unfilled
transparent primer.
+
Quartz sand (0,100-0,300 mm)

3

Quartz sand - Spread
on the layer
(0,200-0,500 mm)



4

CERMICOAT EP TIXO 2C
Epoxy-based, 2-component,
solvent-free, orange peel
texture, top coat floor coating
material
or
CERMICOAT EP 2C
Epoxy-based, 2-component,
solvent-free, top coat flooring
material.
(Color; Colored according to
the RAL catalogue)

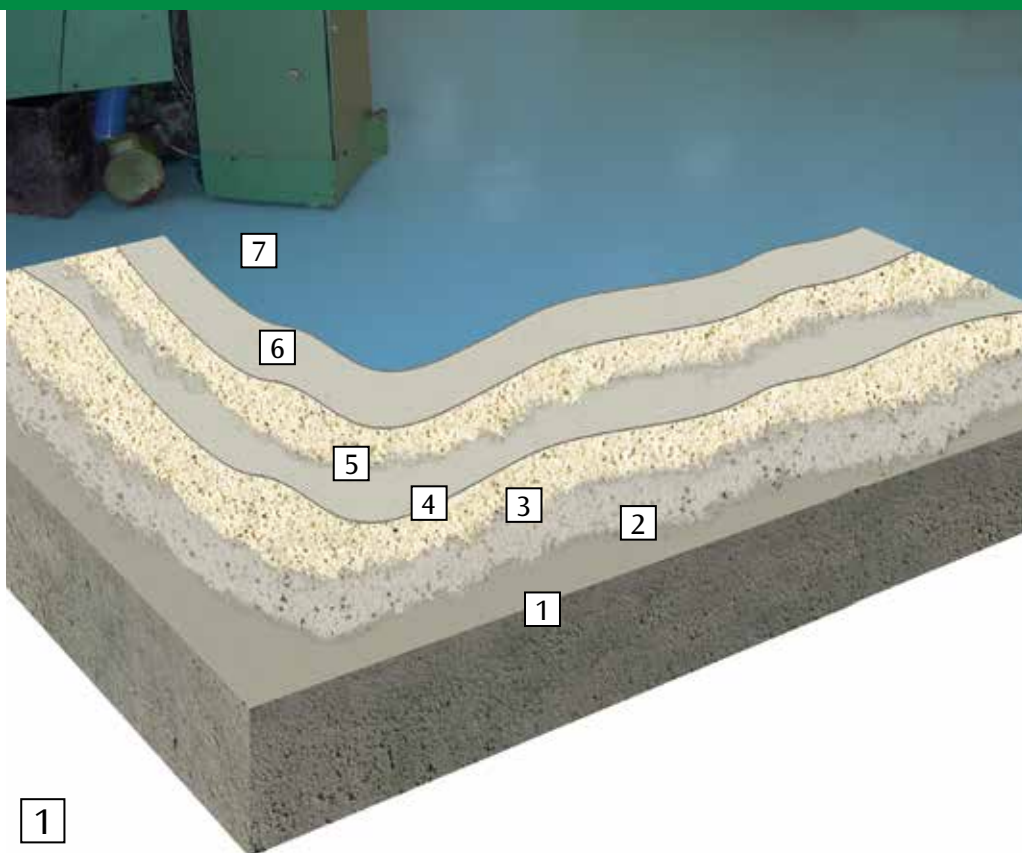


5 *

CERMICOAT PU 2CA
Polyurethane-based, 2-compo-
nent, solvent-free, UV-resistant
topcoat flooring material

*Outdoor application

EPOXY SELF LEVELING FLOORING SYSTEM



1

CONCRETE/SCREED



2

CERMIPRIME EPR 2C
Epoxy based, 2-component, solvent-free, unfilled transparent primer.
With filler



4

6

CERMIFLOOR EP 2C
Epoxy-based, 2-component, solvent-free, self-levelling floor coating material.



7

CERMICOAT PU 2CA
Polyurethane-based, 2-component, solvent-free, UV-resistant topcoat flooring material

3

5

Quartz sand (0,200-0,500 mm)

ELASTIC PU COATING SYSTEM



1
CONCRETE



2
CERMIPRIME EPR 2C
Epoxy based,
2-component,
solvent-free, unfilled
transparent primer.



3
CERMIFLOOR PU 2C
Polyurethane-based,
2-component, solvent-free,
self-levelling floor covering
material.

EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS



1

CONCRETE/SCREED



2

CERMITHERM CT500

Suitable indoor and outdoor heating systems for, high adhesion resistant to thermal shocks, used for bonding insulation board, cement based adhesive.



5

CERMITHERM CT600

CERMITHERM CT550 is used for bonding of all types heat insulation boards.



5

CERMITHERM CT700

Cement-based, different textures top coating material

3

THermal INSULATION BOARD

6

REINFORCEMENT MESH

8

PAINT

4

SCREW ANCHOR



CERMIX

CERMIX PRODUCT PORTFOLIO

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APPLICATION ICONS



Ideal for
INDOOR FLOORING



Ideal for
OUTDOOR FLOORING



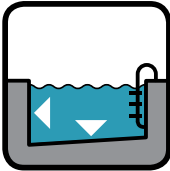
Ideal for
INDOOR WALL
applications



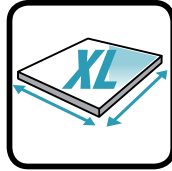
Ideal for
OUTDOOR FACADE
applications



APPLICATION ICONS



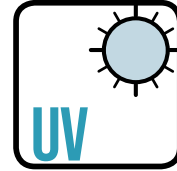
Water Pressure Resistance



Oversized Tile



Application Temperature



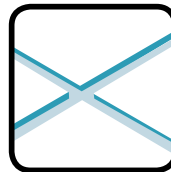
UV Resistance



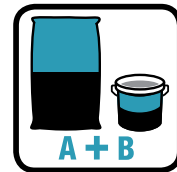
Waterproof



Hygienic



Joint Width



Two Components



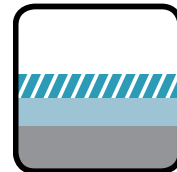
Application with Brush-Roller



Pot Life



Work Duration



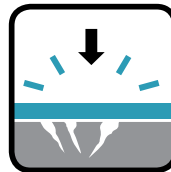
2-Layer Application



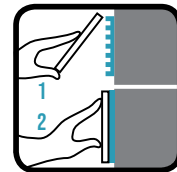
Water Resistance



Surface Inspection



Crack Bridging



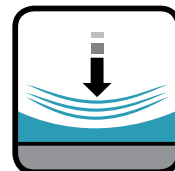
Application Method



Heavy Load Traffic



Homogeneous Mixture



Very Flexible

CERMICRYL

ELASTOMERIC RESIN-BASED, READY-TO-USE, ELASTIC WATERPROOFING MATERIAL



White

- *Practical solution for waterproofing wet areas*
- *Ready-to-use*
- *Possibility of directly gluing ceramics on it with its filled structure*
- *250 % elastic after drying*

PRODUCT INFORMATION

WHERE TO USE

- Waterproofing of wet areas such as bathrooms, wc, balconies etc,
- Suitable on existing concrete, plaster, screed, plaster and plasterboard etc.
- It is a waterproofing material under ceramic that can be directly bonded without the need for sandblasting.

GENERAL FEATURES

- Nature of Material** : Specially filled, elastomeric resin
Type : Liquid-Acrylic structure
Colour : White
Density : $1.8 \pm 0.1 \text{ g/cm}^3$ (mixture)

STANDARDS AND DOCUMENTS

- Public Works Pos. No. 04.509

CONSUMPTION

- Average $1.6\text{-}2 \text{ kg/m}^2$ (1 mm thickness)

PACKAGING

- 10 and 20 kg plastic buckets.

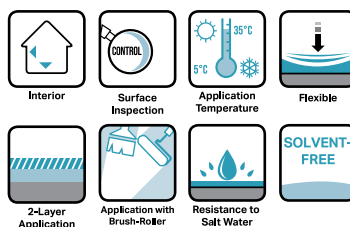
TECHNICAL CHARACTERISTICS (*)

| | |
|----------------------------------------------------|----------------------------------------|
| Temperature resistance | : - 30 °C +80 °C |
| Tensile strength(EN 1542) | : $\geq 0.8 \text{ Mpa}$ |
| - Initial tensile adhesion | : $\geq 0.5 \text{ Mpa}$ |
| - After contact with water | : $\geq 0.5 \text{ Mpa}$ |
| - After heat ageing | : $\geq 0.5 \text{ Mpa}$ |
| - After freeze-thaw cycle | : $\geq 0.5 \text{ Mpa}$ |
| Crack-bridging | : $\geq 2,5 \text{ mm(A5)}$ |
| (21°C / -10°C; %50 relative humidity EN 1062-7) | |
| Capillary Water Absorption Value | : $< 0,1 \text{ kg/m}^2\text{h}^{1/2}$ |
| (EN 1062-3) | |
| Elongation at Break | : % 250 |

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications.

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under suitable storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Pot life: Maximum 5 hours

Outdoor air temperature: +5 °C , +35 °C

Application thickness: 1-1.5 mm

Wait time between coats: Minimum 6 hours

Time for gaining mechanical strength: min. 2 days

Time to become waterproof: 7 days

SUBSTRATE PREPARATION

- The application surface must be clean, free of dirt, free from dust and loose particles.
- The surface should not be too dry or completely wet before application.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP R3 T** and **CERMIREP R4 T**.
- In cases where a chamfer band cannot be used, wall-floor joints should be chamfered with **CERMIREP** repair mortars before application.
- CERMICRYL** can be diluted by 40% and used as a primer in order to increase the adhesion to the surface.

APPLICATION

- CERMICRYL** is supplied ready to use. However, it should be shaken to ensure that the liquid is homogenous prior to pouring out.
- The prepared mixture should be applied to the surface with a hard brush in minimum 2 coats. The first coat should be applied from right to left or top to bottom and our **CERMITAPE TPE** or **CERMITAPE FPO** products should be used at wall-floor joints.
- The second coat should be applied 6 hours after the application of the first coat in the opposite direction to the first one. The main objective here is to cover the surface with the entire material.

RECOMMENDATIONS

- After application, all tools used should be washed with water.
- After application, the surface should be protected from contact with water for at least 24 hours.
- Do not apply on frost hazardous or overheated surfaces, under direct sunlight and in strong windy conditions.
- Do not apply directly on difficult surfaces such as metal, PVC etc., consult technical service for solution.
- Do not apply against negative water pressure.
- Do not use products that have collapsed or petrified after opening.
- Flexible high performance **CERMIPLUS** or **CERMIPLUS XL** products should be used for ceramic adhesion.
- The flow of water towards the drains must be ensured, and it must be ensured that there is no ponding.
- It should not be applied in pools etc. where there is stagnant water.

SAFETY INSTRUCTIONS

- Do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMICRYL UV

ELASTOMERIC RESIN-BASED, READY-TO-USE,
UV RESISTANT, VERY ELASTIC WATERPROOFING MATERIAL



White

- *Over paintable, 400 % elastic after drying*
- *Resistant to UV rays and outdoor weather conditions*
- *Ready-to-use*
- *High crack bridging ability*
- *Strong adhesion*
- *Suitable for horizontal and vertical application*

PRODUCT INFORMATION

WHERE TO USE

- Waterproofing of terrace, roof and external walls
- On gutters, chimneys and parapet flashings
- Suitable on existing concrete, plaster, screed, plaster. In practical waterproofing applications on surfaces such as galvanized, zinc and aluminum.

GENERAL FEATURES

Nature of Material : Synthetic resin with additives for water impermeability, elasticity and UV resistance

Type : Liquid
Colour : White
Density : $1.8 \pm 0.1 \text{ g/cm}^3$ (mixture)

STANDARDS AND DOCUMENTS

- TS EN 1602-11/UV
- CE
- Public Works Pos. No. 04.509

CONSUMPTION

- Average $1.6\text{--}2 \text{ kg/m}^2$ (1 mm thickness)

PACKAGING

- Plastic cans of 20 kg

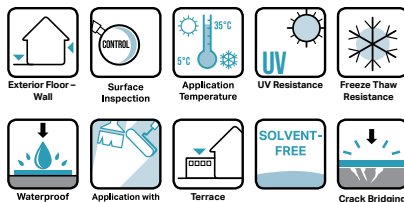
TECHNICAL CHARACTERISTICS (*)

| | |
|----------------------------------------------------|----------------------------------------|
| Temperature resistance | : - 30 °C +80 °C |
| Tensile strength(EN 1542) | : $\geq 0.8 \text{ Mpa}$ |
| - Initial tensile adhesion | : $\geq 0.5 \text{ Mpa}$ |
| - After contact with water | : $\geq 0.5 \text{ Mpa}$ |
| - After heat ageing | : $\geq 0.5 \text{ Mpa}$ |
| - After freeze-thaw cycle | : $\geq 0.5 \text{ Mpa}$ |
| Crack-bridging | : $\geq 2,5 \text{ mm(A5)}$ |
| (21°C / -10°C; %50 relative humidity EN 1062-7) | |
| UV Resistance Test Value: | : Suitable (2000 hours) |
| Capillary Water Absorption Value | : $< 0,1 \text{ kg/m}^2\text{h}^{1/2}$ |
| Elongation at Break | : $> 400 \%$ |

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications.

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under suitable storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Pot life: Maximum 5 hours

Outdoor air temperature: +5 °C , +35 °C

Application thickness: 1-1.5 mm

Wait time between coats: Minimum 6 hours

Mechanical strength gain time: Minimum 2 days

Number of coats to be applied: 2-3

Time to become waterproof: 7 days

SUBSTRATE PREPARATION

- The application surface must be clean, free of dirt, free from dust and loose particles.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.
- In cases where chamfer tape will not be used, wall-floor joints should be chamfered with **CERMIREP** repair mortars before application.
- The application surfaces should be primed with **CEMICRYL UV** diluted with 30-40% water.

APPLICATION

- CEMICRYL UV** is supplied ready to use. Water consumption should not be added to solid products with water or any other substance. However, it should be shaken to ensure that the liquid is homogenous prior to pouring out.
- The prepared mixture should be applied to the surface with a hard brush in minimum 2 coats. The first coat should be applied from right to left or top to bottom and our **CERMITAPE TPE** products should be used at wall-floor joints.
- 2. coat should be applied 6 hours after the application of the first coat in the opposite direction to the first one. The main objective here is to cover the surface with the entire material.
- The times given in the application information and steps may be shortened or extended in different ambient conditions (low/high temperature, humidity, wind, etc.).

RECOMMENDATIONS

- Do not use the product if you encounter problems of precipitation and petrification after unpacking the product.
- Treated surfaces directly for at least 1 day. It should be protected from sunlight, rain and frost.
- It should not be applied against negative water pressure.
- The flow of water towards the drains must be ensured, and it must be ensured that there is no ponding.
- It should not be applied in pools etc. where there is stagnant water.

SAFETY INSTRUCTIONS

- Do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF SF

CEMENT BASED, 2 COMPONENT, SEMI-ELASTIC WATERPROOFING MATERIAL



Gray



- *Ideal solution for waterproofing under ceramic tiles in residences*
- *Suitable for horizontal and vertical applications*
- *Easy to apply*
- *Non-corrosive and non-toxic*

PRODUCT INFORMATION

WHERE TO USE

- Before the application of ceramic tiles, especially in wet areas such as bathrooms, WCs, shower, balconies, terraces, pools.
- On balconies and small terraces,
- For waterproofing applications to be made on cement-based surfaces such as concrete, plaster, screed etc. indoors and outdoors.

GENERAL FEATURES

| | |
|---------------------------|------------------------------------------------------------------------------------------------|
| Nature of Material | : Contains high quality cement, It contains water impermeability additives and liquid polymer. |
| Type | : Powder+liquid |
| Colour | : Gray |
| Density | : $1.80 \pm 0.1 \text{ gr/cm}^3$ (mixture) |

TECHNICAL CHARACTERISTICS(*)

| | |
|-------------------------------|------------------------------------------|
| Temperature resistance | : - 30 °C +70 °C |
| Tensile strength | |
| - Initial tensile adhesion | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After contact with water | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After heat ageing | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After freeze-thaw cycle | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| Crack-bridging | : $\geq 0,75 \text{ mm}$ |
| Waterproofing | : $\geq 1,5 \text{ bar}$ |
| (On positive side) | |

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications.

STANDARDS AND DOCUMENTS

- TS EN 14891
- CE
- Public Works Pos. No. 10.300.2173



CONSUMPTION

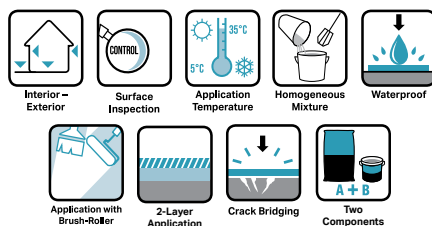
- 1,4-1,6 kg/m² for 1 mm thickness

PACKAGING

- In set of kraft bags, 20kg, (component A); plastic drum 5 l (component B)

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under suitable storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Pot life: Maximum 3 hours

Application temperature: +5 °C , +35 °C

Application thickness: 2-3 mm

Wait time between coats: Minimum 6 hours

Wait time prior to ceramic application: Minimum 2 days

Time for gaining mechanical strength: 2 days

Time to become waterproof: 7 days

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications.

SUBSTRATE PREPARATION

- The application surface must be clean, free of dirt, free from dust and loose particles.
- The surface should not be too dry or completely wet before application.
- Apply **CERMIFILM** primer to the surface prior to application of the product to improve adhesion to the surface and wait 1 hours for the primer to dry.
- Reduce the surface temperature by moistening the surface with water spray method prior to application on surfaces exposed to direct sunlight or on overheated surfaces.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.
- In cases where chamfer tape cannot be used, chamfer the wall-floor joints with **CERMIREP** repair mortars before application.

APPLICATION

- Liquid component of 5 l for 20 kg mixture.
- Mix the product a low-speed (400 rpm) mixer until the mixture is homogeneous and free of lumps.
- Allow the mixture to rest for 3 minutes prior to application and apply after mixing it again.
- The prepared mixture should be applied to the surface with a hard brush in minimum 2 coats. The first coat should be applied from right to left or top to bottom and our **CERMITAPE TPE** should be used at wall-floor joints.
- The second coat should be applied 6 hours after the application of the first coat in the opposite direction to the first one. The main objective here is to cover the surface with the entire material.
- Proceed to the next stage after waterproofing after minimum 2 days.
- The application information and the times given in the steps are under different ambient conditions (low/high temperature, humidity, wind, etc.) may be prolonged.

RECOMMENDATIONS

- The mixing ratio of components A and B is shown on the package and a different mixing ratio should not be used. You must not add water and another material add to the product.
- Do not use the product if you encounter problems of precipitation and petrification after unpacking the product.
- Do not apply directly on the metal, rubber, PVC, wooden, cement-based chipboard and aerated concrete surfaces.
- It has been developed for waterproofing applications under **CERMIPROOF SF** coating and for positive purposes, it should be made open and must be covered with a suitable coating material.
- Surfaces applied with the product should be protected from direct sunlight, rain and frost for minimum 1 day.

SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF FF

CEMENT BASED, 2 COMPONENT, ELASTIC WATERPROOFING MATERIAL



Gray



- **Elastic**
- **High adhesive strength**
- **Suitable for horizontal and vertical applications**
- **Suitable for contact with drinking water**
- **Easy to apply**
- **Crack bridging, fiber reinforced**
- **Freeze-thaw strength**

PRODUCT INFORMATION

WHERE TO USE

- Suitable for water proofing of balconies and terraces
- It is also suited to application on wet areas such as pools, water tanks, wc, shower etc.
- For waterproofing applications to be made on cement-based surfaces such as concrete, plaster, screed etc. indoors and outdoors.

GENERAL FEATURES

| | |
|---------------------------|-------------------------------------------------------------------------------------------------------------------|
| Nature of Material | : Contains high quality cement, it contains water impermeability additives and fibers reinforced, liquid polymer. |
| Type | : Powder+liquid |
| Colour | : Gray |
| Density | : $1.80 \pm 0.1 \text{ gr/cm}^3$ (mixture) |

TECHNICAL CHARACTERISTICS(*)

| | |
|-----------------------------------------|------------------------------------------|
| Temperature resistance | : - 30 °C + 70 °C |
| Tensile strength | |
| - Initial tensile adhesion | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After contact with water | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After heat ageing | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After freeze-thaw cycle | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| Crack-bridging | : $\geq 1,0 \text{ mm}$ |
| Waterproofing | : $\geq 1,5 \text{ bar}$ |
| (On positive side for thickness of 3mm) | |

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications.

PACKAGING

- In set of kraft bags, 25kg, (component A); plastic drum 8 l (component B)

CONSUMPTION

- 1,4-1,6 kg/m² for 1 mm thickness

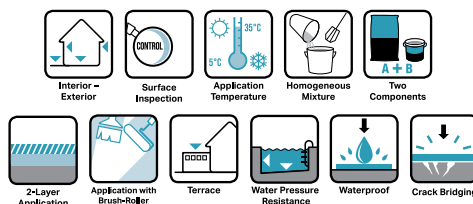


STANDARDS AND DOCUMENTS

- TS EN 14891
- CE
- Conformity report for contact with drinking water
- Public Works Pos. No. 10.300.2173

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under suitable storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Pot life: Maximum 5 hours

Application temperature: +5 °C, +35 °C

Application thickness: 2-3 mm

Wait time between coats: Minimum 6 hours

Wait time prior to ceramic application: Minimum 2 days

Time for gaining mechanical strength: 2 days

Time to become waterproof: 7 days

SUBSTRATE PREPARATION

- The application surface must be clean, free of dirt, free from dust and loose particles.
- The surface should not be too dry or completely wet before application.
- Apply **CERMIFILM** primer to the surface prior to application of the product to improve adhesion to the surface and wait 1 hours for the primer to dry.
- Reduce the surface temperature by moistening the surface with water spray method prior to application on surfaces exposed to direct sunlight or on overheated surfaces.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.
- In cases where chamfer tape cannot be used, chamfer the wall-floor joints with **CERMIREP** repair mortars before application.

APPLICATION

- Liquid component of 8 l for 25 kg mixture. (On positive side for thickness of 3mm)
- Mix the product a low-speed (400 rpm) mixer until the mixture is homogeneous and free of lumps.
- Allow the mixture to rest for 3 minutes prior to application and apply after mixing it again.
- The prepared mixture should be applied to the surface with a hard brush in minimum 2 coats. The first coat should be applied from right to left or top to bottom and our **CERMITAPE TPE** should be used at wall-floor joints.
- 2. coat should be applied 6 hours after the application of the first coat in the opposite direction to the first one. The main objective here is to cover the surface with the entire material.
- Proceed to the next stage after waterproofing after minimum 2 days.
- The times given in the application information and steps may be shortened or extended in different ambient conditions (low/high temperature, humidity, wind, etc.).

RECOMMENDATIONS

- The mixing ratio of components A and B is shown on the package and a different mixing ratio should not be used. You must not add water and another material add to the product.
- Do not use the product if you encounter problems of precipitation and petrification after unpacking the product.
- Do not apply directly on the metal, rubber, PVC, wooden, cement-based chipboard and aerated concrete surfaces.
- It has been developed for waterproofing applications under **CERMIPROOF FF** coating and for positive purposes, it should be made open and must be covered with a suitable coating material.
- Surfaces applied with the product should be protected from direct sunlight, rain and frost for minimum 24 hours.

SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF FF PLUS

CEMENT BASED, 2 COMPONENT, FULLY-ELASTIC WATERPROOFING MATERIAL



Gray



- *High elasticity and adhesion strength*
- *Non-corrosive and non-toxic*
- *Easy to apply*
- *Suitable for horizontal and vertical application*

- *Suitable for contact with drinking water*
- *High freeze-thaw strength, fiber reinforced*
- *High crack bridging ability on surfaces subject to movement*

PRODUCT INFORMATION

WHERE TO USE

- Large-sized terrace applications
- Permanently wet spaces such as Olympic swimming pool, water tank
- Foundation and curtain walls
- For waterproofing applications on cement based surfaces such as concrete, plaster, screed etc. indoors and outdoors.

PRODUCT INFORMATION

Nature of Material : Contains high quality cement, it contains water impermeability additives and fibers reinforced, liquid polymer.

Type : Powder+liquid

Colour : Gray

Density : $1.80 \pm 0.1 \text{ gr/cm}^3$ (mixture)

TECHNICAL CHARACTERISTICS(*)

Temperature resistance : $-40^\circ\text{C} +80^\circ\text{C}$

Tensile strength

- Initial tensile adhesion : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$

- After contact with water : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$

- After heat ageing : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$

- After freeze-thaw cycle : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$

Crack-bridging : $\geq 1.25 \text{ mm}$

Waterproofing : $\geq 7 \text{ bar}$

(on the positive side for 3 mm thickness)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications.

CONSUMPTION

- 1,4-1,6 kg/m² for 1 mm thickness

STANDARDS AND DOCUMENTS

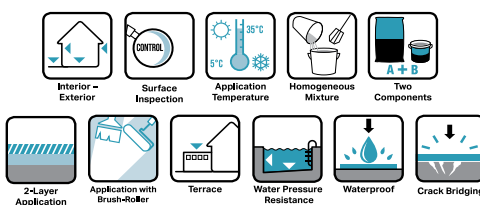
- TS EN 14891
- Conformity report for contact with drinking water
- CE
- Public Works Pos. No. 04.477/1

PACKAGING

- In set of kraft bags, 20kg, (component A); plastic drum 10 l (component B)

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under suitable storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Pot life: Maximum 5 hours

Application temperature: +5 °C , +35 °C

Application thickness: 2-3 mm

Wait time between coats: Minimum 6 hours

Wait time prior to ceramic application: Minimum 2 days

Time for gaining mechanical strength: 2 days

Time to become waterproof: 7 days

SUBSTRATE PREPARATION

- The application surface must be clean, free of dirt, free from dust and loose particles.
- The surface should not be too dry or completely wet before application.
- Apply **CERMIFILM** primer to the surface prior to application of the product to improve adhesion to the surface and wait 1 hours for the primer to dry.
- Reduce the surface temperature by moistening the surface with water spray method prior to application on surfaces exposed to direct sunlight or on overheated surfaces.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**
- In cases where chamfer tape cannot be used, chamfer the wall-floor joints with **CERMIREP** repair mortars before application.

APPLICATION

- 20 kg of powder component is slowly added to 10 lt of liquid component.
- Mix the product a low-speed (400 rpm) mixer until the mixture is homogeneous and free of lumps.
- Allow the mixture to rest for 3 minutes prior to application and apply after mixing it again.
- The prepared mixture should be applied to the surface with a hard brush in minimum 2 coats. The first coat should be applied from right to left or top to bottom and our **CERMITAPE TPE** should be used at wall-floor joints.
- 2. coat should be applied 6 hours after the application of the first coat in the opposite direction to the first one. The main objective here is to cover the surface with the entire material.
- Proceed to the next stage after waterproofing after minimum 2 days.
- The times given in the application information and steps may be shortened or extended in different ambient conditions (low/high temperature, humidity, wind, etc.).

RECOMMENDATIONS

- The mixing ratio of components A and B is shown on the package and a different mixing ratio should not be used. You must not add water and another material add to the product.
- Do not use the product if you encounter problems of precipitation and petrification after unpacking the product.
- Do not apply directly on the metal, rubber, PVC, wooden, cement-based chipboard and aerated concrete surfaces.
- It has been developed for waterproofing applications under **CERMIPROOF FF PLUS** coating and for positive purposes, it should be made open and must be covered with a suitable coating material.
- Surfaces applied with the product should be protected from direct sunlight, rain and frost for minimum 1 day.

SAFETY INSRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF UV

CEMENT BASED, 2 COMPONENT, ELASTIC, UV RESISTANT WATERPROOFING MATERIAL



White



- *Resistant to UV rays and light pedestrian loads*
- *Elastic*
- *Suitable for horizontal and vertical applications*
- *Crack bridging, fiber reinforced*
- *Ease of application*
- *Freeze-thaw strength*
- *Non-corrosive and non-toxic*

PRODUCT INFORMATION

WHERE TO USE

- On terrace roofs that will be left open,
- It is also suited to application on wet areas such as pools, water tanks, wc, balcony etc.
- For waterproofing applications on cement based surfaces such as concrete, plaster, screed etc. indoors and outdoors.

GENERAL FEATURES

Nature of Material : Contains high quality cement. It contains additives that provide water impermeability and UV resistance, and fibers reinforced, liquid polymer.

Type : Powder+liquid

Colour : White

Density : $1.80 \pm 0.1 \text{ g/cm}^3$ (mixture)

CONSUMPTION

- 1,4-1,6 kg/m² for 1 mm thickness

PACKAGING

- Craft sack of 25 kg (component A) + plastic drum of 8 lt (component B)

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under suitable storage conditions.
- Opened packages should be kept tightly closed.

STANDARDS AND DOCUMENTS

- TS EN 14891
- TS EN 1062-11
- Public Works Pos. No. 04.477/1

TECHNICAL CHARACTERISTICS^(*)

Temperature resistance : - 30 °C +70 °C

Tensile strength

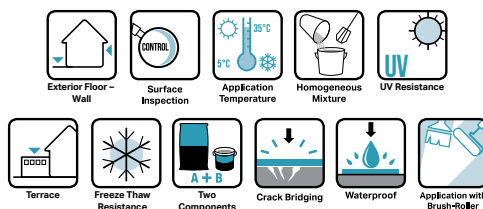
- Initial tensile adhesion : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$
- After contact with water : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$
- After heat ageing : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$
- After freeze-thaw cycle : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$

Crack-bridging : $\geq 1 \text{ mm}$

Waterproofing : $\geq 1,5 \text{ bar}$

(On positive side for thickness of 3mm)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications.



APPLICATION

APPLICATION PROCEDURE

Pot life: Maximum 5 hours

Outdoor air temperature: +5 °C , +35 °C

Application thickness: 2-3 mm

Wait time between coats: Minimum 6 hours

Time for gaining mechanical strength: minimum 2 days

Time to become waterproof: 7 days

SUBSTRATE PREPARATION

- The application surface must be clean, free of dirt, free from dust and loose particles.
- The surface should not be too dry or completely wet before application.
- Apply **CERMIFILM** primer to the surface prior to application of the product to improve adhesion to the surface and wait 1 hours for the primer to dry.
- Reduce the surface temperature by moistening the surface with water spray method prior to application on surfaces exposed to direct sunlight or on overheated surfaces.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.
- In cases where chamfer tape cannot be used, chamfer the wall-floor joints with **CERMIREP** repair mortars before application.

APPLICATION

- Gradually add 25 kg of powder component A to 8 lt of liquid component B
- Mix the product a low-speed (400 rpm) mixer until the mixture is homogeneous and free of lumps.
- Allow the mixture to rest for 3 minutes prior to application and apply after mixing it again.
- The prepared mixture should be applied to the surface with a hard brush in minimum 2 coats. The first coat should be applied from right to left or top to bottom and our **CERMITAPE TPE** should be used at wall-floor joints.
- 2. coat should be applied 6 hours after the application of the first coat in the opposite direction to the first one. The main objective here is to cover the surface with the entire material.
- Proceed to the next stage after waterproofing after minimum 2 days.
- The times given in the application information and steps may be shortened or extended in different ambient conditions (low/high temperature, humidity, wind, etc.).

RECOMMENDATIONS

- The mixing ratio of components A and B is shown on the package and a different mixing ratio should not be used. You must not add water and another material add to the product.
- Do not use the product if you encounter problems of precipitation and petrification after unpacking the product.
- Do not apply directly on the metal, rubber, PVC, wooden, cement-based chipboard and aerated concrete surfaces.
- CERMIPROOF UV** is a waterproof material developed for under-coating applications and therefore should not be left exposed and must be covered with a suitable coating material.
- Surfaces applied with the product should be protected from direct sunlight, rain and frost for minimum 1 day.

SAFETY INSRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF CRYSTAL

CEMENT-BASED, ONE COMPONENT, CRYSTALIZED WATERPROOFING MATERIAL



Gray



- Provides waterproofing by filling the capillary gaps in the concrete
- Resistant to negative and positive water pressure
- Quick solution with ease of application

PRODUCT INFORMATION

WHERE TO USE

- In basements and elevator shafts,
- In foundation and curtain walls,
- External insulation of water tanks,
- In sewage and waste water treatment plants,
- Capillary effective waterproofing material that can be applied to concrete-exposed concrete surfaces indoors and outdoors, from negative and positive directions.

GENERAL FEATURES

Nature of Material : Contains high quality cement, crystallized, one-component waterproofing material with capillary effect

Type : Powder
Colour : Gray

STANDARDS AND DOCUMENTS

- Tested as per TS EN 1504-2 standards
 - CE
- Public Works Pos. No. 04.477/3

CONSUMPTION

- Average 2 kg/m² (for 2 layers)

PACKAGING

- In set of kraft bags 25 kg

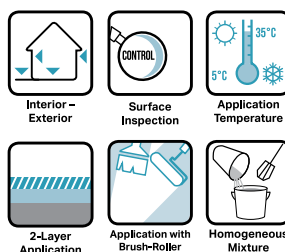
TECHNICAL CHARACTERISTICS (*)

| | |
|--------------------------------------------------------|--------------------------------------------|
| Temperature resistance | : -30 °C +70 °C |
| Waterproofing | : 7 bar (positive and negative) |
| Adhesion Strength (EN 1542) | : ≥ 0,8 N/mm ² |
| Water Vapor Permeability (EN ISO 7783) | : Class 2 ; 5 m <Sd < 50 m |
| Capillary Water Absorption Value (EN 1062-3) | : < 0.1 kg/m ² h ^{0.5} |

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications.

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under suitable storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Pot life: 40 minutes

Application temperature: +5 °C , +35 °C

Number of coat: 2-3

Wait time between coats: Minimum 6 hours

Wait time to final coat application: Minimum 7 days

The time required to fill the water tanks :

Positive pressure ; min. 7 days

Negative pressure ; min. 14 days

SUBSTRATE PREPARATION

- The application surface must be clean, free of dirt, free from dust and loose particles.
- The surface should not be too dry or completely wet before application.
- Reduce the surface temperature by moistening the surface with water spray method prior to application on surfaces exposed to direct sunlight or on overheated surfaces.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIREP**.
- If there are active water leaks on the surface, they should be stopped with **CERMIPLUG** water blocking mortar.

APPLICATION

- Gradually add 7,5-8 lt (30-32%) of clean water to 25 kg of **CERMIPROOF CRYSTAL** and mix to a smooth and homogenous paste. It is recommended to use a low cycled electrical drill-mixer for mixing.
- Allow the mixture to rest for 3 minutes prior to application and apply after mixing it again.
- The prepared mixture should be applied to the surface with a brush as a minimum of 2 layers. The first coat should be applied from right to left or from top to bottom.
- 2. coat should be applied 6 hours after the application of the first coat in the opposite direction to the first one. The main objective here is to cover the surface with the entire material.

RECOMMENDATIONS

- Any substance other than the specified amount of water should not be added to the product.
- Products with petrification detected after opening should not be used.
- The applied surface should be moistened for 5 days, direct sunlight, wind, frost, etc. effects should be protected.
- After the application, the surface must be protected from mechanical loads for at least 48 hours.
- If the applied surface will be exposed to UV or pedestrian traffic, after curing, screed should be protected by ceramic coating.

SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPLUG

CEMENT BASED, QUICK SET, WATER PLUG MORTAR



Grey

- *Easy and quick to apply*
- *Does not cause shrinkage cracks*
- *High mechanical strength*

- *Possibility to be applied as powder or mortar*
- *Chlorine free*



PRODUCT INFORMATION

WHERE TO USE

- Blocking active water leakage and escape,
- Insulation of holes on the concrete pipes,
- On concrete, plaster, screed, and similar cement-based surfaces.

GENERAL FEATURES

Nature of Material : Cement-based mortar, chlorine free
Type : Powder
Colour : Grey
Application temperature : +5 °C - +35 °C

TECHNICAL CHARACTERISTICS(*)

- Flexural Strength : $\geq 10 \text{ N/mm}^2$
- Compression Strength : $\geq 45 \text{ N/mm}^2$

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications.

CONSUMPTION

- Per hole in volume of 1 l: 1.5-2.0kg



PACKAGING

- In plastic bucket, 3 kg

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under suitable storage conditions.
- Opened packages should be kept tightly closed.

Interior –
Exterior WallSurface
InspectionApplication
TemperatureHomogeneous
Mixture

APPLICATION

APPLICATION PROCEDURE

Application temperature: +5°C - +35°C

Pot life: 60 seconds

Through-dry time: 2 minutes

SUBSTRATE PREPARATION

- Application surface should be damp.
- Make sure the surface is sound and clean.
- The surfaces to be applied must be free of dust, dirt, oil, etc.
- Cracks and gaps should be scraped down to 2cm in width and depth.

APPLICATION

- Use gloves in the process of application.
- For application of mortar, add water 0.3 l to 1 kg (%30) of powder and knead the mortar by hand for bringing it to a pasty form. Then give a conical shape to the mortar in pasty within 30 seconds and apply it to the area where there is water leakage with a single movement by applying pressure.
- Continue to apply pressure for 1.5-2 minutes until the material hardens and water leakage stops.
- In the case of powder application, take a small amount of powder in the palm of your hand and apply it to the area of water leakage with a single movement and by applying pressure.
- Remove off any remnants on the surface by using scraper immediately after the application.
- The times given in the application information and steps may be shorter or longer under different ambient conditions (low/high temperature, humidity, wind, etc.).

RECOMMENDATIONS

- Do not use the product if you encounter problems of precipitation and petrification after unpacking the product.
- **CERMIPLUG** should not be used on any surfaces other than cement-based surfaces.
- Any substance other than the specified amount of water should not be added to the product.

SAFETY INSRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF PU

POLYURETHANE-BASED, ONE-COMPONENT VERY ELASTIC WATERPROOFING MATERIAL



White



Gray



- *High elasticity and mechanical strength*
- *UV and weather resistant*
- *Cured with the humidity of the air*

- *High crack bridging ability*
- *Strong adhesion to different surfaces*
- *Easily applied*

PRODUCT INFORMATION

WHERE TO USE

- Especially on roofs, terraces and gutters,
- In balconies, patios and parking lots,
- On the old waterproofed bitumen, EPDM, PVC, acrylic etc. surfaces that need repair,
- Concrete, wood, metal etc. UV resistant waterproofing material that can be used on different surfaces.

GENERAL FEATURES

Nature of Material : Polyurethane resin with additives that provide water impermeability, elasticity and UV resistance.

Type : Liquefied

Colour : Gray, White

Density : $1.40 \pm 0.05 \text{ g/cm}^3$ (mixture)
(ASTM D1475)

Viscosity : 2500-4000 cP
(BROOKFIELD) (ASTM D2196-86)



PACKAGING

- 25 kg and 5 kg buckets

TECHNICAL CHARACTERISTICS

| | |
|---------------------------------|----------------------------------------|
| Hardness (7 days) | : 50-60 Shore A (ASTM D2240) |
| Elongation at Break | : > 600 (ASTM D412) |
| Adhesion to Concrete | : > 2 N/mm ² (ASTM D4541) |
| Water Vapor Transmission | : 0.8 gr/m ² .sa (ASTM E96) |
| Solids Content by Weight | : %80-90 |
| Crack Bridging | : 2 mm |

(*) At 23°C and 50% RH application conditions

STANDARDS AND DOCUMENTS

- In accordance with TS EN 1504-2 standard
- CE

CONSUMPTION

- 1.5 - 2 kg/m² (2-3 coats)

STORAGE

- It should be stored in non-humid, dry and protected warehouses against external weather conditions.
- Shelf life is 1 year under suitable storage conditions.



Interior - Exterior



Surface Inspection



Application Temperature



Waterproof



Application with Brush-Roller



Terrace



UV Resistance



Very Flexible



Crack Bridging



Freeze Thaw Resistance

APPLICATION

APPLICATION PROCEDURE

Application method: Brush, roller or airless spray

Application temperature : +5°C - +35°C

Number of coats: 2-3

Recoat time : 10-12 hours

Full mechanical strength: 7 days

Pot Life: 3 hours

SUBSTRATE PREPARATION

- The humidity of the application surface should be 5% and the relative humidity of the environment should not be more than 85%.
- The application surface must be clean, free of dirt, free from dust and loose particles.
- Before product application, **CERMIPRIME EPR 2C**, **CERMIPRIME PU** or **CERMIPRIME PU PLUS** primer should be applied to the surface in order to increase adhesion and it should be waited for about 4-6 hours to dry.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.

APPLICATION

- CERMIPROOF PU** is a ready-to-use waterproofing material. The product is opened and mixed with a low speed mixer until it reaches homogenous consistency.
- CERMIPROOF PU** should be applied to the surface with a brush or roller as a minimum of 2 coats.
- The second coat should be applied 10-12 hours after the application of the first coat in the opposite direction to the first one. The main objective here is to cover the surface with the entire material. Do not wait more than 24 hours between coats. In case of exceeding 24 hours, the application surface should be roughened with sandpaper.
- If the application will be made by spraying, the product can be applied after thinning with polyurethane thinner when necessary.
- The times given in the application information and steps may be shortened or extended in different ambient conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

- If problems such as collapse, petrification, etc. are detected after the product packaging is opened, the product should not be used.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.
- In cold weather, products should be kept at room temperature for at least 24 hours before application.
- CERMIPROOF PU** is resistant to UV rays. However, when exposed to intense UV rays, although there is no problem with its waterproofing function, it may turn yellow over time. It is recommended to apply a top coat of **CERMICOAT PU 2CA** to increase color resistance and longer-term protection.
- It should not be applied against negative water pressure.
- Since the product contains solvent, the environment must be well ventilated if it is applied in closed areas.

SAFETY INSTRUCTIONS

- Since it contains solvent, it should not be inhaled and contact with skin and eyes should be avoided. It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF PU 2C

POLYURETHANE-BASED, 2-COMPONENT, SOLVENT-FREE WATERPROOFING MATERIAL



Grey



- Suitable for pedestrian traffic with its hard elastic structure
- UV and weather resistant
- High tear and abrasion resistance

- Strong adhesion to different surfaces
- Chemical resistance
- Ease of application, self-levelling

PRODUCT INFORMATION

WHERE TO USE

- On roofs, terraces and balconies,
- In water tanks,
- On floors that come into contact with fuels,
- On foundation and curtain walls,
- In waste water treatment pools,
- Concrete, wood, metal etc. UV resistant waterproofing material that can be used on different surfaces.

GENERAL FEATURES

Nature of Material : Polyurethane resin and hardener with additives providing water impermeability and UV resistance.

Type : liquid

Colour : Grey

Mixture Density : 1,40 gr/cm³

Viscosity : A Comp. : 10000-15000 cP
B Comp. : 200-400 cP



PACKAGING

- 10 kg (A component, resin) + 2 kg (B component, hardener)

STORAGE

- It should be stored in non-humid, dry and protected warehouses against external weather conditions.
- Shelf life is 1 year under suitable storage conditions.

TECHNICAL CHARACTERISTICS

Hardness (7 days) : 75-85 Shore A (ASTM D2240)

Tensile strength (7 days) : 12-24 N/mm²

Elongation at break : % 35

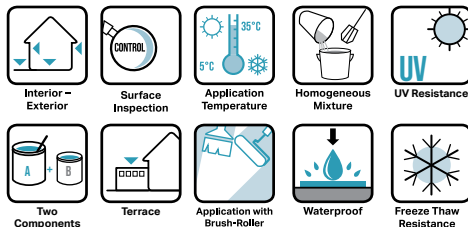
(*) 23 °C ve %55 RH

STANDARDS AND DOCUMENTS

- In accordance with TS EN 1504-2 standard
- CE

CONSUMPTION

- 1,4 for 1 mm thickness



APPLICATION

APPLICATION PROCEDURE

Application temperature : +5°C - +35°C

Application method: Brush, roller, trowel or airless spray

Mixing ratio : A Component : B Component , 5:1

Pot life: 35-40 min.

Number of coats: 2-3

Application thickness: 1-1.5 mm

Recoat time: 8-12 hours

SUBSTRATE PREPARATION

- The humidity of the application surface should not be more than 5% and the relative humidity of the environment should not be more than 85%.
- The application surface must be clean, free of dirt, free from dust and loose particles.
- Before product application, **CERMIPRIME EPR 2C**, **CERMIPRIME PU** or **CERMIPRIME PU PLUS** primer should be applied to the surface in order to increase adhesion and it should be waited for about 4-6 hours to dry.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.
- In cases where chamfer tape will not be used, wall-floor joints should be chamfered with **CERMIREP** repair mortars before application.

APPLICATION

- 2 kg of B component is added to 10 kg of component A. A low speed mixer should be mixed until it is homogeneous and lump-free.
- The prepared mixture is applied to the surface with a brush or roller. It should be applied in 2 coats. First coat from right to left or when applied from top to bottom, wall-floor junction **CERMITAPE TPE** should be used in places.
- Waiting time between coats is 24 hours. The application surface should be roughened with sandpaper.
- If the application will be made by spraying, the product can be applied after thinning with polyurethane thinner when necessary.
- The times given in the application information and steps may be shortened or extended in different ambient conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

- If problems such as collapse, petrification, etc. are detected after the product packaging is opened, the product should not be used.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.
- In cold weather, products should be kept at room temperature for at least 24 hours before application.
- CERMIPROOF PU** is resistant to UV rays. However, when exposed to intense UV rays, although there is no problem with its waterproofing function, it may turn yellow over time. It is recommended to apply a top coat of **CERMICOAT PU 2CA** to increase color resistance and longer-term protection.
- It should not be applied against negative water pressure.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.

SAFETY INSTRUCTIONS

- Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF PB

**POLYURETHANE-BITUMEN BASED,
ONE COMPONENT, ELASTIC WATERPROOFING MATERIAL**



Black



- *High adhesion strength and elasticity*
- *Freeze-thaw resistant*
- *Suitable for horizontal and vertical application*
- *Resistant to plant roots*
- *High crack bridging ability*
- *Ease of application*

PRODUCT INFORMATION

WHERE TO USE

- On the roof, terrace and rain gutters,
- On foundations, curtain and retaining walls,
- In balconies, patios and parking lots,
- Concrete, wood, metal etc. waterproofing material that can be used on different surfaces.

GENERAL FEATURES

| | |
|---------------------------|------------------------------------------------------|
| Nature of Material | : Polyurethane resin backed with polymerized bitumen |
| Type | : Liquid |
| Colour | : Black |
| Density | : $1,30 \pm 0,1 \text{ g/cm}^3$ (mixture) |
| Viscosity | : 2000-4000 cP |



TECHNICAL CHARACTERISTICS

| | |
|----------------------------------|-----------------------------------------|
| Hardness (7 days) | : 50-60 Shore A (ASTM D2240) |
| Elongation at Break | : > 400 (ASTM D412) |
| Tensile strength (7 days) | : > 3 N/mm ² (ASTM D412) |
| Adhesion to Concrete | : > 2 N/mm ² (ASTM D4541) |
| Solids Content by Weight | : %80 - 85 (ASTM D2369) |

(*) 23 °C ve %55 RH

STANDARDS AND DOCUMENTS

- In accordance with TS EN 1504-2 standard
- CE

CONSUMPTION

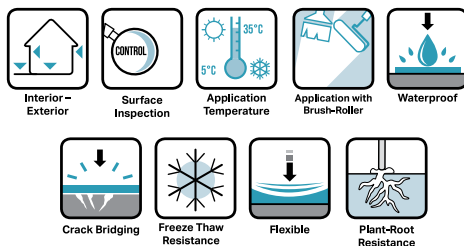
- 1.5 - 2 kg/m² (2 layers application)

PACKAGING

- 20 kg metal bucket

STORAGE

- It should be stored in non-humid, dry and protected warehouses against external weather conditions.
- Shelf life is 1 year under suitable storage conditions.



APPLICATION

APPLICATION PROCEDURE

Application temperature : +5°C - +35°C

Pot Life: 1-2 hours

Application method: Brush, roller or airless spray

Touch Dry Time: 2-3 hours

Number of coats to be applied: 2-3

Recoat time : 6-24 hours

Full mechanical strength: 5-7 days

SUBSTRATE PREPARATION

•The humidity of the application surface should not be more than 5% and the relative humidity of the environment should not be more than 85%.

•The application surface must be clean, free of dirt, free from dust and loose particles.

•Before product application, **CERMIPRIME EPR 2C**, **CERMIPRIME PU** or **CERMIPRIME PU PLUS** primer should be applied to the surface in order to increase adhesion and it should be waited for about 4-6 hours to dry.

•Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.

APPLICATION

•**CERMIPROOF PB** is a ready-to-use waterproofing material. The product is opened and mixed with a low speed mixer until it reaches a homogeneous consistency.

•**CERMIPROOF PB** should be applied to the surface with a

•Approximately 6 hours after the first coat application, the second coat should be applied in the opposite direction of the first coat application. The main purpose here is to cover the surface with all the material.

•Do not wait more than 24 hours between coats. In case of exceeding 24 hours, the application surface should be roughened with sandpaper.

•If the application will be made by spraying method, the product can be applied after thinning with polyurethane thinner if necessary.

•The times given in the application information and steps may be shorter or longer under different ambient conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

•If problems such as collapse, petrification, etc. are detected after the product packaging is opened, the product should not be used.

•Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.

•In cold weather, products should be kept at room temperature for at least 24 hours before application.

•It should not be applied against negative water pressure.

•Since the product contains solvent, the environment must be well ventilated if it is applied in closed areas.

SAFETY INSTRUCTIONS

•Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application.

•It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.

•For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF PB 2C

**POLYURETHANE-BITUMEN BASED, 2-COMPONENT,
HIGH ELASTIC WATERPROOFING MATERIAL**



Black



- *High adhesion strength and elasticity*
- *Freeze-thaw resistant*
- *Suitable for horizontal and vertical application*

- *Resistant to plant roots*
- *High crack bridging ability*
- *Ease of application*

PRODUCT INFORMATION

WHERE TO USE

- On the roof, terrace and rain gutters,
- On foundations, curtain and retaining walls,
- In balconies, patios and parking lots,
- Concrete, wood, metal etc. waterproofing material that can be used on different surfaces.

GENERAL FEATURES

| | |
|---------------------------|------------------------------------------------------|
| Nature of Material | : Polyurethane resin backed with polymerized bitumen |
| Type | : Liquid |
| Colour | : Black |
| Density | : $0.98 \pm 0.1 \text{ g/cm}^3$ (mixture) |
| Viscosity | : 4000-5000 cP |

TECHNICAL CHARACTERISTICS

| | |
|----------------------------------------------------------|-----------------------------------------------|
| Hardness (7 days) | : 30-40 Shore A (ASTM D2240) |
| Elongation at Break | : > 1500% (ASTM D412) |
| Tensile strength (7 days) | : > 3 N/mm ² (ASTM D412) |
| Adhesion to Concrete | : > 2 N/mm ² (ASTM D4541) |
| Solids Content by Weight | : > % 85-90 (ASTM D2369) |
| Fire resistance class | : E |
| Water Vapor permeability | : CLASS I |
| Capillary water absorption and water permeability | : $0.005 \text{ kg/m}^2 \cdot \text{h}^{0.5}$ |
| Adhesion by pull-off test | : 1.50 MPa |

(*) 23 °C and 55% RH

STANDARDS AND DOCUMENTS

- In accordance with TS EN 1504-2 standard
- CE



CONSUMPTION

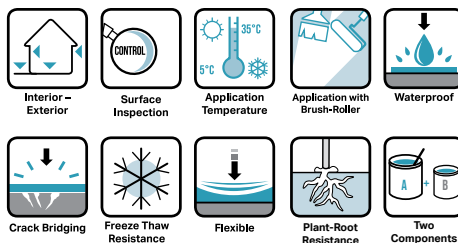
- 1.5 - 2 kg/m² (2 layers application)

PACKAGING

- 34 kg (17 kg + 17 kg) metal bucket

STORAGE

- It should be stored in non-humid, dry and protected warehouses against external weather conditions.
- Shelf life is 1 year under suitable storage conditions.



APPLICATION

APPLICATION PROCEDURE

Application temperature : +5°C - +35°C

Pot Life : 40-50 min.

Recoat time : 6 hours

Full mechanical strength: 5-7 days

Mixing ratio : A Component : B Component , 1:1

Application method: Brush, roller or airless spray

Touch Dry Time: 2-3 hours

Number of coats to be applied: 2-3

SUBSTRATE PREPARATION

- The humidity of the application surface should not be more than 5% and the relative humidity of the environment should not be more than 85%.
- The application surface must be clean, free of dirt, free from dust and loose particles.
- Before product application, **CERMIPRIME EPR 2C**, **CERMIPRIME PU** or **CERMIPRIME PU PLUS** primer should be applied to the surface in order to increase adhesion and it should be waited for about 4-6 hours to dry.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.

APPLICATION

- A low speed mixer of 17 kg A component and 17 kg B component should be mixed until it is homogeneous and lump-free.
- The prepared mixture should be applied to the surface with a brush or roller in minimum 2 coats.
- Approximately 4-6 hours after the first coat application, the second coat should be applied in the opposite direction of the first coat application. The main purpose here is to cover the surface with all the material. •Do not wait more than 24 hours between coats. In case of exceeding 24 hours, the application surface should be roughened with sandpaper.
- If the application will be made by spraying, the product can be applied after thinning with polyurethane thinner when necessary.
- The times given in the application information and steps may be shorter or longer under different ambient conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

- If problems such as collapse, petrification, etc. are detected after the product packaging is opened, the product should not be used.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.
- In cold weather, products should be kept at room temperature for at least 24 hours before application.
- It should not be applied against negative water pressure.
- Since the product contains solvent, the environment must be well ventilated if it is applied in closed areas.

SAFETY INSTRUCTIONS

- Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF BITUM

**POLYMER MODIFIED BITUMEN RUBBER BASED,
SOLVENT FREE, ONE-COMPONENT WATERPROOFING
MATERIAL**



Black



- *High adhesion strength and elastic*
- *Freeze-thaw resistant*
- *Suitable for horizontal and vertical application*

- *High crack bridging ability*
- *Ease of application*

PRODUCT INFORMATION

WHERE TO USE

- On foundations, curtain and retaining walls,
- In terraces, basements and parking lots,
- In the protection and insulation of structural elements exposed to temporary or permanent water pressure,
- Bonding of insulation and drainage boards,
- For waterproofing applications on cement-based surfaces such as concrete, plaster, screed, etc.

GENERAL FEATURES

- Nature of Material** : Bitumen emulsion modified with polymer, special filler and chemicals
- Type** : Liquid
- Colour** : Brown, Black when dry
- Density** : $1,20 \pm 0,1 \text{ g/cm}^3$
- Viscosity** : $\geq 65 \%$

CONSUMPTION

- 1.5 kg/m^2 (For 1 mm thickness)

PACKAGING

- 30 kg plastic bucket

STORAGE

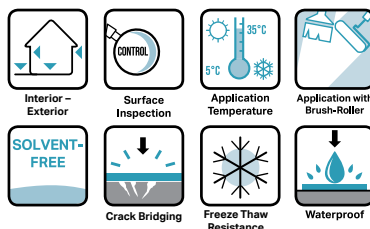
- It should be stored in non-humid, dry and protected warehouses against external weather conditions.
- Shelf life is 1 year under suitable storage conditions.

STANDARDS AND DOCUMENTS

- In accordance with TS EN 1504-2 standards
- CE

TECHNICAL CHARACTERISTICS

| TEST | STANDART | CRITERION | RESULT |
|------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------|--------|
| Watertightness | EN 15820 | Period: 24 hr Water Pressure: 0,075 Bar Dry film thickness $\geq 3 \text{ mm}$ (Without glass fiber mesh) | W1 |
| Crack Bridging Ability | EN 15812 | Crack: $\geq 2 \text{ mm}$ | CB2 |
| Flexibility Low Temperature | EN 15813 | Period: 1 hr Temp: 0°C | Pass |
| Dimensional stability at high temp | EN 15818 | Period: 2 hr Temp: 70°C | Pass |
| Water Resistance | EN 15817 | 28 days in water | Pass |
| Rain Resistance | EN 15816 | 8 hours from application after sprinkling makes. | R2 |
| Thickness when fully dried | EN 15819 | $< 50\%$ | Pass |
| Reaction to fire | EN 13501-1 | Euroclass | E |



APPLICATION

APPLICATION PROCEDURE

Application temperature : +5°C - +35°C

Application thickness : 3-4 mm

Application method: Brush, roller or airless spray

Number of coats to be applied: 2-3

Recoat time : 1 days

Full cure : 2-4 days

SUBSTRATE PREPARATION

- The humidity of the application surface should not be more than 8%.
- The application surface must be clean, free of dirt, free from dust and loose particles.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP R3 T** and **CERMIREP R4 T**.
- Before the application, wall-floor joints should be chamfered with **CERMIREP** repair mortars.
- The application surfaces should be primed with **CERMIPROOF BITUM** diluted with 30-40% water. After the primer coat has dried (approximately 2-3 hours), the application can be started.

APPLICATION

- It was kept at room temperature for 24 hours before the application. until the packages are opened and reach a homogeneous consistency. until mixed. Mixing must be done at low speed. Should be done with a mixer and a suitable mixer tip.
- CERMIPROOF BITUM** can be applied to the surface with a brush or roller. It should be applied as 2 coats.
- Approximately 1 day after the first coat is completely dry, The second layer should be applied in the opposite direction of the first layer. The main purpose here is to cover the surface with all the material.
- 4 mm application thickness is recommended in areas subject to water pressure and in large applications. In order to achieve this, alkali resistant waterproofing mesh should be placed between the floors.
- The times given in the application information and steps may be shortened or extended under different environmental conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

- If problems such as collapse, petrification, etc. are detected after the product packaging is opened, the product should not be used.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.
- In underground applications, filling should be done after it is protected with appropriate thermal insulation and drainage plates.
- It should not be applied against negative water pressure.

SAFETY INSTRUCTIONS

- Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF BITUM 2C

**POLYMER MODIFIED BITUMEN RUBBER BASED,
SOLVENT FREE, 2 COMPONENT
WATERPROOFING MATERIAL**



Black



- *High adhesion strength and elastic*
- *Freeze-thaw resistant*
- *Ease of application*
- *Fiber reinforced*
- *High crack bridging ability*
- *Suitable for horizontal and vertical application*

PRODUCT INFORMATION

WHERE TO USE

- On foundations, curtain and retaining walls,
- In terraces, basements and parking lots,
- In the protection and insulation of structural elements exposed to temporary or permanent water pressure,
- Bonding of insulation and drainage boards,
- For waterproofing applications on cement-based surfaces such as concrete, plaster, screed, etc.

GENERAL FEATURES

- A Component** : Polymer Modified Bitumen Rubber
- B Component** : Cement based powder
- Type** : Liquid
- Colour** : Brown, Black when dry
- Density (A / A+B)** : 1,02 g/cm³
- Solid Content (A / A+B)** : >65%

CONSUMPTION

- 1.5 kg/m² (For 1 mm thickness)

PACKAGING

- 30 kg plastic bucket; 22 kg A bitumen component, + 8 kg B cement component set

STORAGE

- Shelf life is 1 year in original unopened and undamaged packages. Production date and charge number are indicated on the packaging.
- It should be stored at +5 °C ve + 35 °C, protecting it from humidity and direct sunlight.

STANDARDS AND DOCUMENTS

- In accordance with TS EN 1504-2 standards
- CE

TECHNICAL CHARACTERISTICS

| TEST | STANDART | CRITERION | RESULT |
|------------------------------------|------------|------------------------------------------------------------------------------------------------------|--------|
| Watertightness | EN 15820 | Period: 24 hr Water Pressure: 0,075 Bar Dry film thickness ≥3 mm (Without glass fiber mesh) | W1 |
| Crack Bridging Ability | EN 15812 | Crack: ≥2 mm | CB2 |
| Flexibility Low Temperature | EN 15813 | Period: 1 hr Temp: 0 °C | Pass |
| Dimensional stability at high temp | EN 15818 | Period: 2 hr Temp: 70 °C | Pass |
| Water Resistance | EN 15817 | 28 days in water | Pass |
| Rain Resistance | EN 15816 | 8 hours from application after sprinkling makes. | R2 |
| Thickness when fully dried | EN 15819 | < 50%. | Pass |
| Reaction to fire | EN 13501-1 | Euroclass | E |



Interior – Exterior



Surface Inspection



Application Temperature



Application with Brush-Roller



Homogeneous Mixture



SOLVENT-FREE



Crack Bridging



Freeze Thaw Resistance



Waterproof



Two Components

APPLICATION

APPLICATION PROCEDURE

Application method: Brush, roller or airless spray

Application thickness: 3-4 mm

Number of coats to be applied: 2-3

Application Temperature : +5 °C - +35 °C

Recoat time: 1 days

Pot Life : 1-2 hr

Drying : 1-3 days

Mixing Ratio (A/B) : 22+8 kg

SUBSTRATE PREPARATION

- The humidity of the application surface should not be more than 8%.
- The application surface must be clean, free of dirt, free from dust and loose particles.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP R3 T** and **CERMIREP R4 T**.
- Before the application, wall-floor joints should be chamfered with **CERMIREP** repair mortars.
- The application surfaces should be primed with **CERMIPROOF BITUM 2C** bitumen compound diluted with 20% water. After the primer coat has dried (approximately 2-3 hours), the application can be started.

APPLICATION

- Component A is mixed with a low-speed mixer for 2-3 minutes, and after resting for 3 minutes, cement-based powder B component by adding slowly, a low-speed mixer (400-600rpm) until it is lump-free and homogeneous should be mixed.
- The prepared mixture is applied to the surface with a brush or roller. It should be applied as 2 coats..
- Approximately 1 day after the first coat is completely dry, the second layer should be applied in the opposite direction of the first layer. The main purpose here is to cover the surface with all the material.
- 4 mm application thickness is recommended in areas subject to water pressure and in large applications. In order to achieve this, alkali resistant waterproofing mesh should be placed between the coats.
- Times given in application information and steps may be shortened or extended under different environmental conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

- If problems such as collapse, petrification, etc. are detected after the product packaging is opened, the product should not be used.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.
- It should be protected from direct sunlight, rain and frost.
- In underground applications, filling should be done after it is protected with appropriate thermal insulation and drainage plates.
- It should not be applied against negative water pressure.

SAFETY INSTRUCTIONS

- Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF BITUM PLUS 2C

**BITUMEN RUBBER BASED, POLYMER MODIFIED,
SOLVENT FREE, 2 COMPONENT
WATERPROOFING MATERIAL**



Black

- *High adhesion strength and elastic*
- *Freeze-thaw resistant*
- *Ease of application*
- *High water pressure resistance*
- *High crack bridging capability*
- *Suitable for horizontal and vertical application*

PRODUCT INFORMATION

WHERE TO USE

- Bonding of boards for insulation and drainage purposes,
- In waterproofing applications on cement based surfaces such as concrete, plaster, screed etc.

GENERAL FEATURES

- A Component** : Polymer, bitumen emulsion modified with special chemicals.
B Component : Cement based powder
Type : Liquid
Colour : Brown, Black when dry
Density : 1.15 g/cm³ (mix)

CONSUMPTION

- 1.5-2 kg/m² (For 1 mm thickness)

PACKAGING

- 30 kg plastic bucket; 22 kg bitumen component A, + 8 kg cement component B set

STORAGE

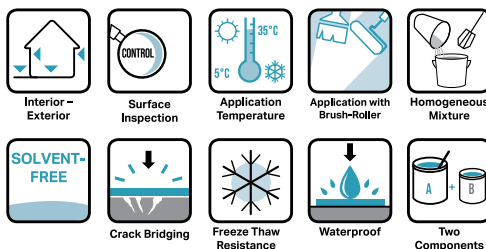
- It should be stored in moisture-free, dry and protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.

STANDARDS AND DOCUMENTS

- In accordance with TS EN 1504-2 standards
- CE

TECHNICAL CHARACTERISTICS

| TEST | STANDART | CRITERION | RESULT |
|------------------------------------|------------|----------------------------------------------------------------------------------------------------------|--------|
| Watertightness | EN 15820 | Period: 72 hr Water Pressure: 0,075 Bar Dry film thickness ≥ 4 mm (Without glass fiber mesh) | W1 |
| Crack Bridging Ability | EN 15812 | Crack: ≥ 2 mm | CB2 |
| Flexibility Low Temperature | EN 15813 | Period: 1 hr Temp: 0 °C | Pass |
| Dimensional stability at high temp | EN 15818 | Period: 1 hr Temp: 70 °C | Pass |
| Water Resistance | EN 15817 | 28 days in water | Pass |
| Rain Resistance | EN 15816 | 8 hr | R2 |
| Thickness when fully dried | EN 15819 | < 50% | Pass |
| Reaction to fire | EN 13501-1 | Euroclass | E |



CERMIPROOF BITUM PLUS 2C

APPLICATION

APPLICATION PROCEDURE

| | |
|-----------------------------------|-------------------------------------|
| Application Method | : Brush, roller or airless spraying |
| Application Temperature | : +5 °C - +35 °C |
| Curing | : 3 hr |
| Pot Life | : 1-2 hr |
| Full Drying | : 1-3 days |
| Mixing Ratio (A/B) | : 22+8 kg |
| Waiting time between coats | : 1 days |
| Application thickness | : 3-4 mm |

SUBSTRATE PREPARATION

- The humidity of the application surface should not be more than 8%.
- Application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Defects, cracks and holes on the surface to be applied must be corrected and repaired properly with **CERMIMORTAR** or **CERMIREP** repair mortars. Wall-floor joints should be chamfered with **CERMIREP** repair mortars before application.
- Application surfaces should be primed with **CERMIPROOF BITUM 2C** bitumen compound thinned with 20% water. Application can be started after the primer coat dries (approximately 2-3 hours).

APPLICATION

- Component A should be mixed with a low speed mixer for 2-3 minutes, after resting for 3 minutes, cement based powder component B should be added slowly and mixed with a low speed mixer (400-600 rpm) until it becomes homogeneous and without lumps.
- The prepared mixture should be applied to the surface with a brush or roller in minimum 2 coats.
- Approximately 1 day after the first coat is completely dry, the second coat should be applied in the opposite direction of the first coat. The main purpose here is to cover the surface with all the material.
- In areas exposed to water pressure and for large quantity applications, 4 mm application thickness is recommended. In order to achieve this, an alkali resistant waterproofing mesh should be placed between the layers.
- The times given in the application information and steps may be shorter or longer under different ambient conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

- If problems such as collapse, petrification etc. are detected after the product packages are opened, the product should not be used.
- The applied surfaces should be protected from direct sunlight, rain and frost for at least 24 hours.
- In subsoil applications, filling should be done after protection with suitable thermal insulation and drainage boards.
- In cold weather, 2-component bituminous products will give better application performance as they dry faster than single component bituminous products.
- Should not be applied against negative water pressure.

SAFETY INSTRUCTIONS

- Avoid contact with skin and eyes..
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF

HYBRID POLYUREA 2C

2 COMPONENT, SOLVENT AND VOC FREE, HYBRID POLYUREA WATERPROOFING SYSTEM



- *High elasticity and mechanical strength*
- *Hot spray applied*
- *Strong adhesion to different surfaces*

- *Fast curing (15-25 sec.)*
- *High crack bridging ability*
- *Suitable for horizontal and vertical application*

PRODUCT INFORMATION

WHERE TO USE

- On terraces and roofs,
- Industrial floors, parking lots, stadiums,
- On roads and bridges,
- Concrete, wood, metal etc. Very fast curing waterproofing material that can be used on different surfaces.

GENERAL FEATURES

Material Structure

A: Isocyanate based prepolymer

B: Polyamine Resin

Type : Liquid

Density : $1.11 \pm 0.03 \text{ g/cm}^3$ (component A)

$1.02 \pm 0.02 \text{ g/cm}^3$ (component B)

Viscosity : 700-800 MPa.s (component A)

300-600 MPa.s (component B)

CONSUMPTION

- 1-1.1 kg / m² / mm

STANDARDS AND DOCUMENTS

- In accordance with EN 1504-2 standards

PACKAGING

- 200 kg barrel (Prepolymer, Component A)
- 220 kg barrel (Polyamine, Component B)

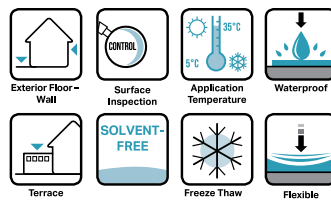
STORAGE

- It should be stored in closed warehouses that are free from humidity, dry and protected against external weather conditions.
- Shelf life is 6 months under suitable storage conditions.

TECHNICAL CHARACTERISTICS

| TEST | STANDARD | VALUE |
|-------------------------------------------------|-------------------------------------|-------------------------|
| Tensile strength | (ASTM D638) | ≥ 18 MPa |
| Tear resistance | (ASTM D-624) | ≥ 25 MPa |
| Taber abrasion resistance | (EN ISO 5470-1), (H22, 1000 cycles) | < 250 mg |
| Impact Resistance | (EN ISO 6272-1) | Class III |
| Bond strength: Concrete | (ASTM D4541) | ≥ 3 MPa, Steel: ≥ 6 MPa |
| Crack bridging property under normal conditions | | 2mm |
| Modulus | (ASTM D638) | 100% elongation ≥ 5 MPa |
| Elongation at break | (ASTM D638) | 350% |
| Hardness (Shore A) | (ASTM D2240) | 90-95 |
| Volatile component content | (ASTM D1259) | 0% |
| Solid content | (ASTM D2697) | 100% |

(*) These values were obtained as a result of laboratory tests and are the performance values of the finished applications after 28 days. Values may change due to the difference in the construction site environment.



CERMIPROOF HYBRID POLYUREA 2C

APPLICATION

APPLICATION PROCEDURE

Application method : Spray machine that can operate at high pressure and temperature
Mix Ratio By Volume: A: 100, B: 100
Product Application temperature : 70-80 °C
Product Application Pressure : 1,5 Mpa
Concrete Moisture Content: Max. 4% pbw
Gelation time: 5-10 seconds
Touch Dry: 15-25 seconds

SUBSTRATE PREPARATION

- Moisture rate of the application surface 4% and the relative humidity of the environment should not be more than 85%.
- The application environment/surface temperature should be between +5 °C and +40 °C.
- In order to obtain a smooth surface and increase the adhesion strength, the surface should be primed.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.
- Increase surface adhesion prior to product application. For this purpose, **CERMIPRIME EPR 2C**, **CERMIPRIME PU** or **CERMIPRIME PU PLUS** primer should be applied to the surface and waited for at least 4-6 hours for it to dry.

APPLICATION

- **CERMIPROOF HYBRID POLYUREA 2C** with high pressure and temperature spray machine for homogeneous mixing and spraying of prepolymer and polyamine resin components should be applied.
- The machine to be applied must be able to heat the product components up to at least 70°C and spray at a ratio of 1:1 by volume (with 120-180 bar pressure).
- Throughout the application for a good performance, it is very important that the temperature and pressure are constant and regular should be kept under control.
- The times given in the application information and steps may be shortened or extended in different environmental conditions (low/high temperature, humidity, wind, etc.).

RECOMMENDATIONS

- The applied surfaces should be protected from direct sunlight, rain and frost for at least 24 hours.
- It should not be applied against negative water pressure.
- Opened packages should be completely finished.
- Any thinner etc. should not be added to the product.
- **CERMIPROOF POLYUREA** products are resistant to UV rays. However, when exposed to intense UV rays, although there is no problem with its waterproofing function, it may turn yellow over time. It is recommended to apply a top coat of **CERMICOAT PU 2CA** to increase color resistance and longer-term protection.

SAFETY INSTRUCTIONS

- Avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPROOF PURE POLYUREA 2C

**SOLVENT AND VOC-FREE, 2 COMPONENT, 100% PURE
POLYUREA WATERPROOFING SYSTEM**



- *High elasticity and mechanical strength*
- *Strong adhesion to different surfaces*
- *Hot spray applied*
- *Fast curing (13-15 sec.)*
- *High crack bridging ability*
- *Suitable for horizontal and vertical application*

PRODUCT INFORMATION

WHERE TO USE

- On terraces and roofs,
- Industrial floors, parking lots, stadiums,
- Pipelines, treatment plants, water tanks,
- On roads and bridges,
- Concrete, wood, metal etc. Very fast curing waterproofing material that can be used on different surfaces.

GENERAL FEATURES

Material Structure

A: Isocyanate prepolymer

B: Amine Resin

Density : $1.11 \pm 0.03 \text{ g/cm}^3$ (component A)

$1.02 \pm 0.02 \text{ g/cm}^3$ (component B)

Viscosity : 700-800 MPa.s (component A)
300-600 MPa.s (component B)

CONSUMPTION

- 1-1.1 kg / m² / mm

STANDARDS AND DOCUMENTS

- In accordance with EN 1504-2 standards

PACKAGING

- 200 kg barrel (Prepolymer, Component A)
- 220 kg barrel (Polyamine, Component B)

STORAGE

- It should be stored in closed warehouses that are free from humidity, dry and protected against external weather conditions.
- Shelf life is 6 months under suitable storage conditions.

TECHNICAL CHARACTERISTICS

| TEST | STANDARD | VALUE |
|---------------------------|-------------------------------------|-----------------------------------------------------|
| Tensile strength | (ASTM D638) | ≥18 MPa |
| Modulus | (ASTM D638) | 100% elongation ≥10 MPa, 300% elongation ≥15 MPa |
| Elongation at break | (ASTM D638) | <350 mg |
| Hardness (Shore D) | (ASTM D2240) | 40-45 |
| Hardness (Shore A) | (ASTM D2240) | 90-95 |
| Tear resistance | (ASTM D 624) | ≥50N / mm |
| Process Pressure | | A: 180-200 Bar B: 180-200 Bar |
| Taber abrasion resistance | (EN ISO 5470-1), (H22, 1000 cycles) | <30mg |
| Impact resistance | (EN ISO 6272-1) | Class III |
| Adhesion strength | ASTM D 4541 | Concrete: ≥2.5 MPa, Steel: ≥6 MPa |
| Crack bridging | | ≥ 2mm |



Exterior Floor – Wall



Surface Inspection



Application Temperature



Waterproof



Terrace



SOLVENT-FREE



Freeze Thaw Resistance



Flexible

CERMIPROOF PURE POLYUREA 2C

APPLICATION

APPLICATION PROCEDURE

Application method : Spray machine that can operate at high pressure and temperature
Mix Ratio By Volume: A: 100, B: 100
Product Application temperature : 70-80 °C
Product Application Pressure : 1.5 Mpa
Concrete Moisture Content: Max. 4% pbw
Gelation time: 3-7 seconds
Touch Dry : 13-15 seconds

SUBSTRATE PREPARATION

- Moisture rate of the application surface 4% and the relative humidity of the environment should not be more than 85%.
- The application environment/surface temperature should be between +5 °C and +40 °C.
- In order to obtain a smooth surface and increase the adhesion strength, the surface should be primed.
- Remove and repair any defects, cracks and holes on the application surface properly by using the repair mortars of **CERMIMORTAR** or **CERMIREP**.
- Increase surface adhesion prior to product application

For this purpose, **CERMIPRIME EPR 2C**, **CERMIPRIME PU** or **CERMIPRIME PU PLUS** primer should be applied to the surface and waited for at least 4-6 hours for it to dry.

APPLICATION

- **CERMIPROOF PURE POLYUREA 2C** with high pressure and temperature spray machine for homogeneous mixing and spraying of prepolymer and polyamine resin components should be applied.
- The machine to be applied must be able to heat the product components up to at least 70°C and spray at a ratio of 1:1 by volume (with 120-180 bar pressure).
- Throughout the application for a good performance, it is very important that the temperature and pressure are constant and regular should be kept under control.
- The times given in the application information and steps may be shortened or extended in different environmental conditions (low/high temperature, humidity, wind, etc.).

RECOMMENDATIONS

- The applied surfaces should be protected from direct sunlight, rain and frost for at least 24 hours.
- It should not be applied against negative water pressure.
- Opened packages should be completely finished.
- Any thinner etc. should not be added to the product.
- **CERMIPROOF POLYUREA** products are resistant to UV rays. However, when exposed to intense UV rays, although there is no problem with its waterproofing function, it may turn yellow over time. It is recommended to apply a top coat of **CERMICOAT PU 2CA** to increase color resistance and longer-term protection.

SAFETY INSTRUCTIONS

- Avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMITAPE TPE

THERMOPLASTIC ELASTOMER-BASED(TPE), WATERPROOFING TAPE FOR WALL-FLOOR JOINTS



Dark Grey

- *High adhesion*
- *High elasticity*
- *Chemical resistance*

- *Resistant to water pressure*
- *Resistant to weather conditions and water*
- *Suitable for contact with drinking water*

PRODUCT INFORMATION

WHERE TO USE

- Bathroom, wc etc. in wet areas
- Balconies, terraces, parapets
- In areas with permanent wet volumes such as pools, water tanks, etc.

GENERAL FEATURES

- Carrier** : Modified polyester mesh
Coating : Aging resistant, thermoplastic elastomer (TPE)
Colour : Dark grey

STORAGE

- 12 months from the date of production in moisture-free and dry environments, provided that the package is not opened and damaged.
- If the packaging film is opened, apply the material within 2 months.

STANDARDS AND DOCUMENTS

- Tested according to DIN EN ISO 527-3.

PACKAGING

- 10 meters and 50 meters in a cardboard box

TECHNICAL CHARACTERISTICS

| PHYSICAL PROPERTIES (APPROX) | TEST METHOD | VALUE |
|--------------------------------------------------------|-----------------------|-------------|
| Breaking load (Longitudinal) | DIN EN ISO 527-3 | 63 N /15 mm |
| Breaking load (Transverse) | DIN EN ISO 527-3 | 36 N /15 mm |
| Elongation at break (Longitudinal) | DIN EN ISO 527-3 | %26 |
| Elongation at break (Transverse) | DIN EN ISO 527-3 | %123 |
| Power absorption capacity (25% horizontal flexibility) | DIN EN ISO 527-3 | 0,7 N/mm |
| Power absorption capacity (50% horizontal flexibility) | DIN EN ISO 527-3 | 0,9 N/mm |
| Pressurized water resistance | DIN EN 1928 (Metot B) | ≥1,5 bar |
| UV-resistance | DIN EN ISO 4892-2 | ≥500 hours |



Interior – Exterior



Surface Inspection



Application Temperature

CERMITAPE TPE**APPLICATION****SUBSTRATE PREPARATION**

- Care should be taken to ensure that the internal and external surfaces are solid, dry, dust-free and clean, in balance and smooth.
- The surface should be free of all kinds of oil, grease, rust and paraffin residues that may adversely affect adherence, and there should be no loose particles on the surface.
- Surface defects should be corrected with **CERMIREP R4 T**.

APPLICATION

- The first layer of **CERMIPROOF** products is applied to the application surface.
- CERMITAPE TPE** is placed on the joint and pressed with a brush before the first layer of **CERMIPROOF** products dries. The parts with net and felt carrier are embedded in the first layer of **CERMIPROOF** products.
- After the first layer of **CERMIPROOF** products is cured, the application of the other layers can be started.

SAFETY INSTRUCTIONS

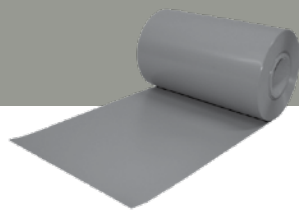
- Users should refer to the material safety data sheet (MSDS) of the product, which includes and safety-related information, for information and advice on the safe transport, storage and disposal of chemical products.



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMITAPE FPO 1 MM

FLEXIBLE POLYOLEFIN (FPO) BASED DILATATION AND WATERPROOFING TAPE



Grey

- **High adhesion**
- **High elasticity**
- **Chemical resistance**
- **Resistant to weather conditions and water**
- **Root resistant**
- **UV-resistant**
- **Plasticiser-free**
- **Suitable for contact with drinking water**
- **Expansion joint**

PRODUCT INFORMATION

WHERE TO USE

- Balconies, terraces, parapets,
- In areas with permanent wet volumes such as pools, water tanks, etc.,
- In tunnels, foundation-curtain walls,
- In wall-floor joints, expansion joints.

GENERAL FEATURES

- Chemical structure** : Flexible Polyolefin (FPO)
Width : 200 mm
Colour : Grey

STORAGE

- Do not open the package in dry and moisture-free environments and it is 12 months from the date of production provided that it is not damaged.
- If packaging film has been opened apply the material within 2 months.

STANDARDS AND DOCUMENTS

- Tested according to DIN EN ISO 9001:2015

PACKAGING

- One roll 20 meters, 5 rolls per carton



Interior – Exterior



Surface Inspection



Application Temperature

TECHNICAL CHARACTERISTICS

| | | |
|------------------------------------------|----------|---------------------------------------------------------------------|
| Tear Resistance - Lengthwise | 13,2 Mpa | (DIN EN 12311-2, Metot B) |
| Tear Resistance - Across | 8,8 Mpa | (DIN EN 12311-2, Metot B) |
| Elongation at break - Lengthwise | %980 | (DIN EN 12311-2, Metot B) |
| Elongation at break - Across | %800 | (DIN EN 12311-2, Metot B) |
| Tear Resistance(nail shank) - Lengthwise | 265 N | (DIN EN 12310-1) |
| Tear Resistance(nail shank) - Across | 275 N | (DIN EN 12310-1) |
| Water vapour permeability | 98 m | (DIN EN 1931, Metot B) |
| Shore A Hardness | ca. 87 | ≥500 hours |
| Bonding Strength | ≥3,0 Mpa | (DIN EN 1348) |
| Peel test on Wood Carrier | ≥100 N | |
| Water Tightness | | (DIN EN 1928-A-60 kPa /24 hours (DIN EN 1928-A-400 kPa /72 hours |
| Burst Pressure | ≥3,6 bar | |
| UV-Resistance | ≥6500 h | |
| Reaction to Fire | Class E | (DIN EN 11925-2, EN 13501-1) |

(*)These values were obtained as a result of laboratory tests and are the performance values of the finished applications after 28 days. Values may vary due to the difference in the construction site environment.

CERMITAPE FPO 1 MM**APPLICATION****APPLICATION PROCEDURE**

Thickness : 1 mm

Total weight : 1020 g/m²

Length per roll : 20 m

Resistance to temperature: -30 °C / + 90 °C

**SUBSTRATE PREPARATION**

•In dilatation joints, care should be taken to ensure that the internal and external surfaces are solid, dry, dust-free and clean, in balance and smooth.

•The surface should be free of all kinds of oil, grease, rust and paraffin residues that may adversely affect adherence and there should be no loose particles on the surface. Surface defects should be repaired with **CERMIREP R4 T**.

APPLICATION

•**CERMITAPE FPO** is adhered with special adhesive mortar on both sides, reinforced with polypropylene carrier.

•**CERMITAPE FPO** can be easily and quickly applied to any crack or dilatation joint, it does not require any special equipment.

•A hot air welding tool is required for splicing tape rolls end to end.

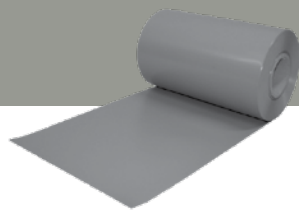
SAFETY INSTRUCTIONS

•Users should refer to the material safety data sheet (MSDS) of the product, which includes and safety-related information, for information and advice on the safe transport, storage and disposal of chemical products.

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMITAPE FPO 2 MM

FLEXIBLE POLYOLEFIN (FPO) BASED DILATATION AND WATERPROOFING TAPE



Grey

- **High adhesion**
- **High elasticity**
- **Chemical resistance**
- **Resistant to weather conditions and water**
- **Root resistant**
- **UV-resistant**
- **Plasticiser-free**
- **Suitable for contact with drinking water**
- **Expansion joint**

PRODUCT INFORMATION

WHERE TO USE

- Balconies, terraces, parapets
- In areas with permanent wet volumes such as pools, water tanks, etc.
- In tunnels, foundation-curtain walls
- In wall-floor joints, expansion joints

GENERAL FEATURES

Chemical structure : Flexible Polyolefin (FPO)
Width : 250 mm
Colour : Grey

STORAGE

- Do not open the package in dry and moisture-free environments and it is 12 months from the date of production provided that it is not damaged.
- If packaging film has been opened apply the material within 2 months

STANDARDS AND DOCUMENTS

- Tested according to DIN EN ISO 9001:2015

PACKAGING

- One roll 20 meters, 5 rolls per carton



Interior - Exterior



Surface Inspection



Application Temperature

TECHNICAL CHARACTERISTICS

| | | |
|------------------------------------------|----------|---------------------------------------------------------------------|
| Tear Resistance - Lengthwise | 9,8 Mpa | (DIN EN 12311-2, Metot B) |
| Tear Resistance - Across | 8,9 Mpa | (DIN EN 12311-2, Metot B) |
| Elongation at break - Lengthwise | %1000 | (DIN EN 12311-2, Metot B) |
| Elongation at break - Across | %1100 | (DIN EN 12311-2, Metot B) |
| Tear Resistance(nail shank) - Lengthwise | 600 N | (DIN EN 12310-1) |
| Tear Resistance(nail shank) - Across | 650 N | (DIN EN 12310-1) |
| Water vapour permeability | 180 m | (DIN EN 1931, Metot B) |
| Shore A Hardness | ca. 87 | ≥500 hours |
| Bonding Strength | ≥3,0 Mpa | (DIN EN 1348) |
| Peel test on Wood Carrier | ≥100 N | |
| Water Tightness | | (DIN EN 1928-A-60 kPa /24 hours (DIN EN 1928-A-400 kPa /72 hours |
| Burst Pressure | ≥4,0 bar | |
| UV-Resistance | ≥6500 h | |
| Reaction to Fire | Class E | (DIN EN 11925-2, EN 13501-1) |

(*)These values were obtained as a result of laboratory tests and are the performance values of the finished applications after 28 days. Values may vary due to the difference in the construction site environment.

CERMITAPE FPO 2 MM**APPLICATION****APPLICATION PROCEDURE**

Thickness : 2 mm

Total weight : 1020 g/m²

Length per roll : 20 m

Resistance to temperature: -30 °C / + 90 °C

SUBSTRATE PREPARATION

- In dilatation joints, care should be taken to ensure that the internal and external surfaces are solid, dry, dust-free and clean, in balance and smooth.
- The surface should be free of all kinds of oil, grease, rust and paraffin residues that may adversely affect adherence and there should be no loose particles on the surface. Surface defects should be repaired with **CERMIREP R4 T**.

**APPLICATION**

- **CERMITAPE FPO** is adhered with special adhesive mortar on both sides, reinforced with polypropylene carrier.
- **CERMITAPE FPO** can be easily and quickly applied to any crack or dilatation joint, it does not require any special equipment.
- A hot air welding tool is required for splicing tape rolls end to end.

SAFETY INSTRUCTIONS

- Users should refer to the material safety data sheet (MSDS) of the product, which includes and safety-related information, for information and advice on the safe transport, storage and disposal of chemical products.

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMICOL EXTRA

CEMENT-BASED STANDARD PERFORMANCE, NO-SLIP ADHESIVE MORTAR



Grey



White



- *Capability of laying ceramic tiles on the wall without shifting*
- *For indoor use*
- *Easy trowelling*

PRODUCT INFORMATION

WHERE TO USE

- Ceramic tile, glass mosaic, natural stone, etc. coating materials, indoors, for application on cementitious substrates
- Concrete, plaster, screed etc. on cementitious surfaces in applications to be made

GENERAL FEATURES

| | |
|----------------|------------------------------------------------------------------------------------------------------|
| Nature | : Powder product containing high quality cement, filler and performance-enhancing polymer additives. |
| Colour | : Grey / White |
| Density | : $1.3 \pm 0.05 \text{ g/cm}^3$ |

TECHNICAL CHARACTERISTICS (*)

Tensile strength

| | |
|--------------------------------|------------------------------------------|
| - Initial (after 28 days) | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After heat ageing | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After water ageing | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After freeze-thaw cycle | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - Open time (after 20 minutes) | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |

Shear : $\leq 0.5 \text{ mm}$

Temperature resistance : $-15^\circ\text{C} - +70^\circ\text{C}$

Fire resistance class : A1 (TS EN 13501 – 1)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

STANDARDS AND DOCUMENTS

- 12004-1/C1T class
 - CE
- Public works pos. No. : 04.380/001



CONSUMPTION

- 3-5 kg/m² in average

PACKAGING

- In kraft bags, 25 kg, (48 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



Interior

Surface
InspectionApplication
TemperatureHomogeneous
MixtureApplication with
Notched Trowel

Work Duration

APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 5.25 – 6.25 l water for 25 kg powder product

Time allowance for working

and tile correction: 20 minutes

Time for use of mixture (Pot life): 3 hours

Application temperature: +5°C to +35°C

Time for foot traffic: minimum 24 hours

Pointing time: after minimum 24 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMI FILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMI FLOOR** levelling screeds. Surface corrections up to 5mm vertically and 7mm horizontally can be made with **CERMICOL EXTRA**.

APPLICATION

- Slowly add 25 kg of **CERMICOL EXTRA** to 5.25 - 6.25 l (21-25%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- When prepared, the mortar should have a consistency that will not flow when taken on the trowel.
- After **CERMICOL EXTRA** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMICOL EXTRA** is 20 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- The prepared mixture should be consumed within 3 hours.
- For coating materials larger than 40x40 cm, a combined adhesion method (i.e. adhesive application both on the surface and on the back of the tile) should be used. Consumption may increase by 30-50% approximately.
- Proceed to the process of grouting at least 24 hours after the adhesion process.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMINET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- For applications to be made on large areas, necessary expansion joints should be allowed considering the thermal stress and mechanical loads that may occur on the surfaces and they should be filled with suitable **CERMITHANE** mastic or **CERMITAPE FPO** expansion profiles.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as bathroom, shower, WC, etc., waterproofing should be done with **CERMI PROOF SF/FF/FF PLUS** prior to tile application.



SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMICOL SUPER

**CEMENT-BASED,
EXTENDED WORKING TIME,
NO-SLIP ADHESIVE MORTAR**



Grey



White



- *Capability of laying ceramic tiles on the wall without shifting*
- *High adhesion performance*

- *Easy trowelling*
- *Making labor easier with long working time*

PRODUCT INFORMATION

WHERE TO USE

- Ceramic tile, glass mosaic, natural stone, etc. coating materials, indoors, for application on cementitious substrates,
 - In wet areas such as bathrooms and kitchens,
 - Concrete, plaster, screed etc. on cementitious surfaces
- Ideal for applications to be made.

GENERAL FEATURES

- Nature** : Powder product containing high quality cement, filler and performance-enhancing polymer additives.
- Colour** : Grey / White
- Density** : $1.3 \pm 0.05 \text{ g/cm}^3$

TECHNICAL CHARACTERISTICS

Tensile strength

- Initial (after 28 days) : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$
- After heat ageing : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$
- After water ageing : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$
- After freeze-thaw cycle : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$
- Open time : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$

(after 30 minutes)

Shear : $\leq 0.5 \text{ mm}$

Temperature resistance : $-30^\circ\text{C} - +70^\circ\text{C}$

Fire resistance class : A1 (TS EN 13501 – 1)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

STANDARDS AND DOCUMENTS

- 12004-1/C1TE class
 - CE
- Public works pos. No. : 10.300.2202



CONSUMPTION

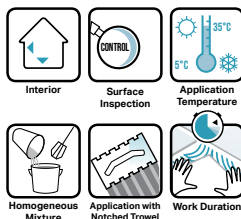
- 3-5 kg/m² in average

PACKAGING

- In kraft bags, 25 kg, (48 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 5,5-6,5 l water for 25 kg powder product

Time allowance for working

and tile correction: 30 minutes

Time for use of mixture (Pot life): 3 hours

Application temperature: +5°C to +35°C

Time for foot traffic: minimum 24 hours

Pointing time: after minimum 24 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMI FILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMIFLOOR** levelling screeds. Surface corrections up to 5mm vertically and 7mm horizontally can be made with **CERMICOL SUPER**
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMI FILM PLUS** or **CERMI FILM PLUS BETON** prior to application.

APPLICATION

- Slowly add 25 kg of **CERMICOL SUPER** to 5.5 - 6.5 l (22-26%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- When prepared, the mortar should have a consistency that will not flow when taken on the trowel.
- After **CERMICOL SUPER** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMICOL SUPER** is 30 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- The prepared mixture should be consumed within 3 hours.
- For coating materials larger than 40x40 cm, a combined adhesion method (i.e. adhesive application both on the surface and on the back of the tile) should be used. Consumption may increase by 30-50% approximately.
- Proceed to the process of grouting at least 24 hours after the adhesion process.

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMINET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- For applications to be made on large areas, necessary expansion joints should be allowed considering the thermal stress and mechanical loads that may occur on the surfaces and they should be filled with suitable **CERMITHANE** mastic or **CERMITAPE FPO** expansion profiles.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as bathroom, shower, WC, etc., waterproofing should be done with **CERMI PROOF SF/FF/FF PLUS** prior to tile application.



SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

CERMIFLEX

CEMENT-BASED HIGH PERFORMANCE, NO-SLIP ADHESIVE MORTAR



Grey



White



- *Capability of laying ceramic tiles on the wall without shifting*
- *High adhesion performance*

- *Easy trowelling*
- *Safe usage for tile-on-tile applications*

PRODUCT INFORMATION

WHERE TO USE

- Application of coating materials such as porcelain tile, granite, natural stone, ceramic tile, Cotto tiles, marble etc. on cement-based surfaces.
- For use indoors and outdoors.
- Tiling applications on ceramic tile and marble.

GENERAL FEATURES

| | |
|----------------|------------------------------------------------------------------------------------------------------|
| Nature | : Powder product containing high quality cement, filler and performance-enhancing polymer additives. |
| Colour | : Grey / White |
| Density | : $1.3 \pm 0.05 \text{ g/cm}^3$ |

TECHNICAL CHARACTERISTICS (*)

Tensile strength

| | |
|--------------------------------|------------------------------------------|
| - Initial (after 28 days) | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After heat ageing | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After water ageing | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After freeze-thaw cycle | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - Open time (after 20 minutes) | : $\geq 0,5 \text{ MPa (N/mm}^2\text{)}$ |

Shear : $\leq 0.5 \text{ mm}$

Flexibility : Medium

Temperature resistance : $-30^\circ\text{C} - +70^\circ\text{C}$

Fire resistance class : A1 (TS EN 13501 – 1)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

STANDARDS AND DOCUMENTS

- 12004-1/C2T class
 - CE
- Public works pos. No. : 10.300.2202



CONSUMPTION

- 3-6 kg/m² in average

PACKAGING

- In kraft bags, 25 kg, (48 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



Interior-Exterior



Surface Inspection



Application Temperature



Homogeneous Mixture



Application with Notched Trowel



Work Duration

APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 5.25 – 6.25 l water for 25 kg powder product

Time allowance for working

and tile correction: 20 minutes

Time for use of mixture (Pot life): 3 hours

Application temperature: +5°C to +35°C

Time for foot traffic: minimum 24 hours

Pointing time: after minimum 24 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMI-FILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMI-MORTAR**, **CERMI-REP** repair mortars or **CERMI-FLOOR** levelling screeds. Surface corrections up to 5mm vertically and 7mm horizontally can be made with **CERMI-FLEX**.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMI-FILM PLUS** or **CERMI-FILM PLUS BETON** prior to application.

APPLICATION

- Slowly add 25 kg of **CERMI-FLEX** to 5.25 - 6.25 l (21-25%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- When prepared, the mortar should have a consistency that will not flow when taken on the trowel.
- After **CERMI-FLEX** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMI-FLEX** is 20 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- The prepared mixture should be consumed within 3 hours.
- For coating materials larger than 40x40 cm, a combined adhesion method (i.e. adhesive application both on the surface and on the back of the tile) should be used. Consumption may increase by 30-50% approximately.
- Proceed to the process of grouting at least 24 hours after the adhesion process.

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMINET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- For applications to be made on large areas, necessary expansion joints should be allowed considering the thermal stress and mechanical loads that may occur on the surfaces and they should be filled with suitable **CERMI-THANE** mastic or **CERMI-TAPE FPO** expansion profiles.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as bathroom, shower, WC, etc., waterproofing should be done with **CERMI-PROOF SF/FF/FF PLUS** prior to tile application.



SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

CERMIGRES

CEMENT-BASED

HIGH PERFORMANCE, EXTENDED WORKING TIME, NO-SLIP ADHESIVE MORTAR



Grey



White

- *Capability of laying ceramic tiles on the wall without shifting*
- *High adhesion performance*

- *Easy trowelling*
- *Safe usage for tile-on-tile applications*
- *Making labor easier with long working time*

PRODUCT INFORMATION

WHERE TO USE

- Application of coating materials such as porcelain tile, granite, natural stone, ceramic tile, Cotto tiles, marble etc. on cement-based surfaces.
- Indoor and outdoor applications on cement based surfaces such as concrete, plaster, screed etc.
- Tiling applications on ceramic tile and marble.

GENERAL FEATURES

- Nature** : Powder product containing high quality cement, filler and performance-enhancing polymer additives.
- Colour** : Grey / White
- Density** : $1.3 \pm 0.05 \text{ g/cm}^3$

TECHNICAL CHARACTERISTICS (*)

Tensile strength

- Initial (after 28 days) : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After heat ageing : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After water ageing : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After freeze-thaw cycle : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- Open time (after 30 minutes) : $\geq 0,5 \text{ MPa (N/mm}^2\text{)}$

Shear : $\leq 0.5 \text{ mm}$

Flexibility : Medium

Temperature resistance : $-30^\circ\text{C} - +70^\circ\text{C}$

Fire resistance class : A1 (TS EN 13501 – 1)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

STANDARDS AND DOCUMENTS

- 12004-1/C2TE class
 - CE
- Public works pos. No. : 10.300.2203



CONSUMPTION

- 3-6 kg/m² in average

PACKAGING

- In kraft bags, 25 kg, (48 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



Interior – Exterior



Surface Inspection



Application Temperature



Homogeneous Mixture



Application with Notched Trowel



Work Duration

APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 5.5 - 6.5 l water for 25 kg powder product

Time allowance for working

and tile correction: 30 minutes

Time for use of mixture (Pot life): 3 hours

Application temperature: +5°C to +35°C

Time for foot traffic: minimum 24 hours

Pointing time: after minimum 24 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMI FILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMI FLOOR** levelling screeds. Surface corrections up to 5mm vertically and 7mm horizontally can be made with **CERMIGRES**.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMI FILM PLUS** or **CERMI FILM PLUS BETON** prior to application.

APPLICATION

- Slowly add 25 kg of **CERMIGRES** to 5.5 - 6.5 l (22-26%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- When prepared, the mortar should have a consistency that will not flow when taken on the trowel.
- After **CERMIGRES** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMIGRES** is 30 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- The prepared mixture should be consumed within 3 hours.
- For coating materials larger than 40x40 cm, a combined adhesion method (i.e. adhesive application both on the surface and on the back of the tile) should be used. Consumption may increase by 30-50% approximately.
- Proceed to the process of grouting at least 24 hours after the adhesion process.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMINET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- For applications to be made on large areas, necessary expansion joints should be allowed considering the thermal stress and mechanical loads that may occur on the surfaces and they should be filled with suitable **CERMITHANE** mastic or **CERMITAPE FPO** expansion profiles.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as bathroom, shower, WC, etc., waterproofing should be done with **CERMI PROOF SF/FF/FF PLUS** prior to tile application.



SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIGRANIT

**CEMENT-BASED, HIGH PERFORMANCE,
NON-SLIP, S1 CLASS, ELASTIC ADHESIVE MORTAR**



Grey



White

- *Capability of laying ceramic tiles on the wall without shifting*
- *Strong bonding performance to large sized coating materials*
- *Excellent resistance to thermal shocks and surface movements with its high performance*
- *Strong adhesion to difficult surfaces*
- *Easy trowelling*

PRODUCT INFORMATION

WHERE TO USE

- Implementation of (porcelain tile, granite, natural stone, ceramic tile, cotto, marble etc) coating materials on cement-based surfaces for indoors and outdoors.
- For underfloor heating, cold storage, terrace etc. where temperature changes are high,
- In floor applications (heavy pedestrian traffic such as shopping malls, schools, etc.)
- In wet areas such as pools,
- In ceramic applications to be made on difficult surfaces such as dye, ceramic, etc.

GENERAL FEATURES

| | |
|----------------|------------------------------------------------------------------------------------------------------|
| Nature | : Powder product containing high quality cement, filler and performance-enhancing polymer additives. |
| Colour | : Grey / White |
| Density | : $1.3 \pm 0.05 \text{ g/cm}^3$ |

TECHNICAL CHARACTERISTICS (*)

| | |
|--------------------------------|-------------------------------------------------------------|
| Tensile strength | |
| - Initial (after 28 days) | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After heat ageing | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After water ageing | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After freeze-thaw cycle | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - Open time (after 20 minutes) | : $\geq 0,5 \text{ MPa (N/mm}^2\text{)}$ |
| Shear | : $\leq 0.5 \text{ mm}$ |
| Flexibility | : $2,5 \text{ mm} < S1 < 5 \text{ mm}$ |
| Temperature resistance | : $-40 \text{ }^\circ\text{C} - +80 \text{ }^\circ\text{C}$ |
| Fire resistance class | : A1 (TS EN 13501 – 1) |

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

CONSUMPTION

- 3-6 kg/m² in average



STANDARDS AND DOCUMENTS

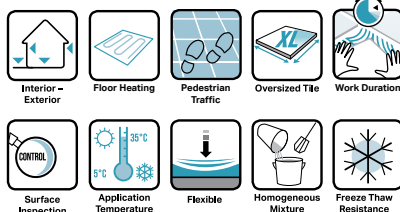
- 12004-1/C2T, S1 class
- CE
- Public works pos. No. : 10.300.2204

PACKAGING

- In kraft bags, 25 kg, (48 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 5.5 – 6.5 l water for 25 kg powder product

Time allowance for working

and tile correction: 20 minutes

Time for use of mixture (Pot life): 3 hours

Application temperature: +5°C to +35°C

Time for foot traffic: minimum 24 hours

Pointing time: after minimum 24 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMI FILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMI FLOOR** levelling screeds. Surface corrections up to 5mm vertically and 7mm horizontally can be made with **CERMIGRANIT**.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMI FILM PLUS** or **CERMI FILM PLUS BETON** prior to application.

APPLICATION

- Slowly add 25 kg of **CERMIGRANIT** to 5.5 - 6.5 l (22-26%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- When prepared, the mortar should have a consistency that will not flow when taken on the trowel.
- After **CERMIGRANIT** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMIGRANIT** is 20 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- The prepared mixture should be consumed within 3 hours.
- For coating materials larger than 40x40 cm, a combined adhesion method (i.e. adhesive application both on the surface and on the back of the tile) should be used. Consumption may increase by 30-50% approximately.
- Proceed to the process of grouting at least 24 hours after the adhesion process.

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMINET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- For applications to be made on large areas, necessary expansion joints should be allowed considering the thermal stress and mechanical loads that may occur on the surfaces and they should be filled with suitable **CERMITHANE** mastic or **CERMITAPE FPO** expansion profiles.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as bathroom, shower, WC, etc., waterproofing should be done with **CERMI PROOF SF/FF/FF PLUS** prior to tile application.



SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

CERMIPLUS

**CEMENT-BASED HIGH PERFORMANCE,
NO-SLIP, EXTENDED WORKING TIME,
CLASS S1, ELASTIC ADHESIVE MORTAR**



Grey



White



- *Capability of laying ceramic tiles on the wall without shifting*
- *Strong bonding performance to large sized coating materials*
- *Easy trowelling*
- *Excellent resistance to thermal shocks and surface movements with its high flexibility*
- *Long working time*
- *Strong adhesion to difficult surfaces*

PRODUCT INFORMATION

WHERE TO USE

- For bonding porcelain ceramic, granite ceramic, natural stone, ceramic tile, cotto, marble etc. coating materials,
- Concrete, plaster, screed etc. indoors and outdoors. in applications to be made on cement-based surfaces,
- For Underfloor heating, cold storage, terrace etc. where temperature changes high
- In floor applications (heavy pedestrian traffic such as shopping malls, schools, etc.)
- In wet areas such as pools
- In ceramic applications to be made on difficult surfaces such as paint, plaster, ceramic, etc.

GENERAL FEATURES

| | |
|----------------|------------------------------------------------------------------------------------------------------|
| Nature | : Powder product containing high quality cement, filler and performance-enhancing polymer additives. |
| Type | : Powder |
| Colour | : Grey / White |
| Density | : $1.3 \pm 0.05 \text{ g/cm}^3$ |

TECHNICAL CHARACTERISTICS (*)

Tensile strength

- Initial (after 28 days) : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After heat ageing : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After water ageing : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After freeze-thaw cycle : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- Open time : $\geq 0,5 \text{ MPa (N/mm}^2\text{)}$

(after 30 minutes)

Shear : $\leq 0,5 \text{ mm}$

Flexibility : $2,5 \text{ mm} < S1 < 5 \text{ mm}$

Temperature resistance : $-40^\circ\text{C} - +80^\circ\text{C}$

Fire resistance class : A1 (TS EN 13501 – 1)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

STANDARDS AND DOCUMENTS

- 12004-1/C2TE, S1 class
 - CE
- Public works pos. No. : 10.300.2204

CONSUMPTION

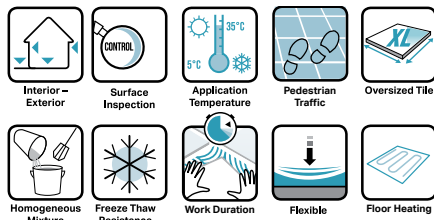
- 3-6 kg/m² in average

PACKAGING

- In kraft bags, 25 kg, (48 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 5.5 – 6.5 l water for 25 kg powder product

Time allowance for working

and tile correction: 30 minutes

Time for use of mixture (Pot life): 3 hours

Application temperature: +5°C to +35°C

Time for foot traffic: minimum 24 hours

Pointing time: after minimum 24 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMI FILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMI MORTAR**, **CERMI REP** repair mortars or **CERMI FLOOR** levelling screeds. Surface corrections up to 5mm vertically and 7mm horizontally can be made with **CERMI PLUS**.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMI FILM PLUS** or **CERMI FILM PLUS BETON** prior to application.

APPLICATION

- Slowly add 25 kg of **CERMI PLUS** to 5.5 - 6.5 l (22-26%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- When prepared, the mortar should have a consistency that will not flow when taken on the trowel.
- After **CERMI PLUS** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMI PLUS** is 30 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- The prepared mixture should be consumed within 3 hours.
- For coating materials larger than 40x40 cm, a combined adhesion method (i.e. adhesive application both on the surface and on the back of the tile) should be used. Consumption may increase by 30-50% approximately.
- Proceed to the process of grouting at least 24 hours after the adhesion process.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMI NET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- For applications to be made on large areas, necessary expansion joints should be allowed considering the thermal stress and mechanical loads that may occur on the surfaces and they should be filled with suitable **CERMI THANE** mastic or **CERMI TAPE FPO** expansion profiles.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as bathroom, shower, WC, etc., waterproofing should be done with **CERMI PROOF FF/ FF PLUS** prior to tile application.



SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPOOL

CEMENT-BASED HIGH PERFORMANCE, SPECIALLY DEVELOPED FOR POOL, S1 CLASS, ELASTIC ADHESIVE MORTAR



Grey



White



- *Excellent adhesion performance in pools and wet areas*
- *Possibility to lay ceramic tiles from top to bottom without slipping*

- *High resistance to thermal shocks and surface movements due to its flexibility*
- *Making labor easier with long working time*
- *Improved water repellency*

PRODUCT INFORMATION

WHERE TO USE

- Bonding of porcelain ceramic, granite ceramic, natural stone, glass mosaic, ceramic, marble etc. coating materials,
- In wet areas such as pools, water tanks, baths, car wash stations, etc,
- Ceramic applications on difficult surfaces such as paint, plaster, ceramic etc,
- Indoor and outdoor applications on cement based surfaces such as concrete, plaster, screed etc.

GENERAL FEATURES

| | |
|----------------|------------------------------------------------------------------------------------------------------------------------|
| Nature | : Powder product containing high quality cement, filler and performance-enhancing, water repellency polymer additives. |
| Colour | : Grey / White |
| Density | : $1.3 \pm 0.05 \text{ g/cm}^3$ |

TECHNICAL CHARACTERISTICS (*)

Tensile strength

| | |
|--------------------------------|------------------------------------------|
| - Initial (after 28 days) | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After heat ageing | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After water ageing | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After freeze-thaw cycle | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - Open time (after 30 minutes) | : $\geq 0.5 \text{ MPa (N/mm}^2\text{)}$ |

Shear : $\leq 0.5 \text{ mm}$

Flexibility : $2.5 \text{ mm} \leq S1 \leq 5 \text{ mm}$

Temperature resistance : $-40^\circ\text{C} - +80^\circ\text{C}$

Fire resistance class : A1 (TS EN 13501 – 1)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.



STANDARDS AND DOCUMENTS

- 12004-1/C2TE, S1 class
- Public works pos. No. : 04.380/008

CONSUMPTION

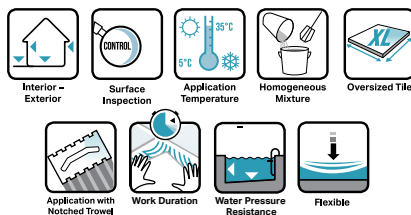
- 3-6 kg/m² in average

PACKAGING

- In kraft bags, 25 kg, (48 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 5.5 – 6.5 l water for 25 kg powder product

Time allowance for working and tile correction: 30 minutes

Time for use of mixture (Pot life): 3 hours

Application temperature: +5°C to +35°C

Time for foot traffic: minimum 24 hours

Pointing time: after minimum 24 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMI FILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMI MORTAR**, **CERMI REP** repair mortars or **CERMI FLOOR** levelling screeds. Surface corrections up to 5mm vertically and 7mm horizontally can be made with **CERMI POOL**.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMI FILM PLUS** or **CERMI FILM PLUS BETON** prior to application.

APPLICATION

- Slowly add 25 kg of **CERMI POOL** to 5.5 - 6.5 l (22-26%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- When prepared, the mortar should have a consistency that will not flow when taken on the trowel.
- After **CERMI POOL** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMI POOL** is 30 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- The prepared mixture should be consumed within 3 hours.
- For coating materials larger than 40x40 cm, a combined adhesion method (i.e. adhesive application both on the surface and on the back of the tile) should be used. Consumption may increase by 30-50% approximately.
- Proceed to the process of grouting at least 24 hours after the adhesion process.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMI NET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- For applications to be made on large areas, necessary expansion joints should be allowed considering the thermal stress and mechanical loads that may occur on the surfaces and they should be filled with suitable **CERMI THANE** mastic or **CERMI TAPE FPO** expansion profiles.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as pool, bath, terrace etc., waterproofing should be done with **CERMI PROOF FF/FF PLUS** prior to tile application.



SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPLUS RAPID

**CEMENT-BASED
HIGH PERFORMANCE,
FAST-SETTING, NO-SLIP, ADHESIVE MORTAR**



Grey



White



- *Capability of laying ceramic tiles on the wall without shifting*
- *Excellent adhesion performance*
- *Easy trowelling*

- *Ready for joint filler in 6 hours*
- *In tile-on-tile applications*

PRODUCT INFORMATION

WHERE TO USE

- Cafes, markets, banks, etc., which are requested to be opened within 1 day in commercial applications,
- Porcelain ceramic, granite ceramic, natural stone, ceramic, cotto, marble etc. bonding of coating materials,
- Indoor and outdoor, concrete, plaster, screed, etc. in applications to be made on cement-based surfaces,
- In tile-on-tile applications.

GENERAL FEATURES

| | |
|----------------|------------------------------------------------------------------------------------------------------|
| Nature | : Powder product containing high quality cement, filler and performance-enhancing polymer additives. |
| Colour | : Grey / White |
| Density | : $1.3 \pm 0.05 \text{ g/cm}^3$ |

TECHNICAL CHARACTERISTICS (*)

Tensile strength

- Initial (after maximum 6 hours) : $\geq 0.5 \text{ MPa (N/mm}^2\text{)}$
- After heat ageing : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After water ageing : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After freeze-thaw cycle : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- Open time : $\geq 0.5 \text{ MPa (N/mm}^2\text{)}$

(after at least 10 minutes)

Shear : $\leq 0.5 \text{ mm}$

Flexibility : $2.5 \text{ mm} < S1 < 5 \text{ mm}$

Temperature resistance : $-30^\circ\text{C} - +70^\circ\text{C}$

Fire resistance class : A1 (TS EN 13501 – 1)

(*)These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

STANDARDS AND DOCUMENTS

- 12004-1/C2FT class
- CE

Public works pos. No. : 04.013/1, 04.013/4



CONSUMPTION

- 3-6 kg/m² in average

PACKAGING

- In kraft bags, 20 kg, (60 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



Interior - Exterior



Surface Inspection



Application Temperature



Homogeneous Mixture



Application with Notched Trowel



Work Duration

APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 4.4-4.8 water for 20 kg powder product

Time allowance for working

and tile correction: 15 minutes

Time for use of mixture (Pot life): 20 minutes

Application temperature: +5°C to +35°C

Time for foot traffic: minimum 6 hours

Pointing time: after minimum 6 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMI FILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMI MORTAR**, **CERMI REP** repair mortars or **CERMI FLOOR** levelling screeds. Surface corrections up to 5mm vertically and 7mm horizontally can be made with **CERMI PLUS RAPID**.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMI FILM PLUS** or **CERMI FILM PLUS BETON** prior to application.

APPLICATION

- Slowly add 20 kg of **CERMI PLUS RAPID** to 4.4-4.8 lt (22-24%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- When prepared, the mortar should have a consistency that will not flow when taken on the trowel.
- After **CERMI PLUS RAPID** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMI PLUS RAPID** is 15 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- The prepared mixture should be consumed within 20 minutes.
- For coating materials larger than 40x40 cm, a combined adhesion method (i.e. adhesive application both on the surface and on the back of the tile) should be used. Consumption may increase by 30-50% approximately.
- Proceed to the process of grouting at least 6 hours after the adhesion process.

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMINET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- For applications to be made on large areas, necessary expansion joints should be allowed considering the thermal stress and mechanical loads that may occur on the surfaces and they should be filled with suitable **CERMI THANE** mastic or **CERMI TAPE FPO** expansion profiles.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as bathroom, shower, WC, etc., waterproofing should be done with **CERMI PROOF SF/FF/FF PLUS** prior to tile application.



SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

CERMIPLUS XL

**CEMENT-BASED HIGH PERFORMANCE,
NO-SLIP, EXTENDED WORKING TIME,
CLASS S2 VERY ELASTIC ADHESIVE MORTAR**



Grey



White



- **Strong bonding performance of large sized coating materials.**
- **Capability of laying ceramic from top to bottom without slipping**
- **Easy trowelling**

- **Excellent resistance to thermal shocks and surface movements with its high flexibility**
- **Strong bonding to difficult surfaces**
- **Long working time**

PRODUCT INFORMATION

WHERE TO USE

- In applications such as porcelain tile, granite ceramic, marble etc. on exterior facades.
- Cold storage, terrace, etc. in areas with high temperature changes
- In floor applications that are exposed to heavy pedestrian-load traffic such as hospitals, etc.
- In wet areas such as pools, water tanks, etc.
- Ceramic, granite to be made on difficult surfaces such as paint, plaster, ceramic, granite ceramic, etc. in ceramic applications.

GENERAL FEATURES

| | |
|----------------|------------------------------------------------------------------------------------------------------|
| Nature | : Powder product containing high quality cement, filler and performance-enhancing polymer additives. |
| Colour | : Grey / White |
| Density | : $1.3 \pm 0.05 \text{ g/cm}^3$ |

TECHNICAL CHARACTERISTICS (*)

Tensile strength

- Initial (after 28 days) : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After heat ageing : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After water ageing : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- After freeze-thaw cycle : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$
- Open time (after 30 minutes) : $\geq 0.5 \text{ Mpa (N/mm}^2\text{)}$

Shear : $\leq 0.5 \text{ mm}$

Flexibility : $5 \text{ mm} \leq \text{S2 (Very good)}$

Temperature resistance : $-40^\circ\text{C} - +80^\circ\text{C}$

Fire resistance class : A1 (TS EN 13501 – 1)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

CONSUMPTION

- 5-8 kg/m² in average



STANDARDS AND DOCUMENTS

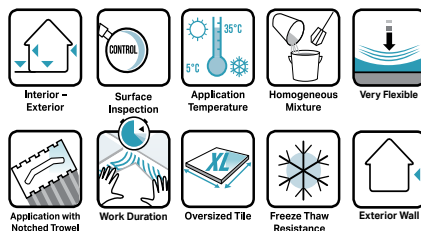
- 12004-1/C2TE, S2 class
- CE
- Public works pos. No. : 04.380/009

PACKAGING

- In kraft bags, 25 kg, (48 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 5.5 – 6.5 l water for 25 kg powder product

Time allowance for working

and tile correction: 30 minutes

Time for use of mixture (Pot life): 3 hours

Application temperature: +5 °C - +35 °C

Time for foot traffic: minimum 24 hours

Pointing time: after minimum 24 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMI FILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMIMORTAR**, **CERMI REP** repair mortars or **CERMI FLOOR** levelling screeds. Surface corrections up to 5mm vertically and 7mm horizontally can be made with **CERMIPLUS XL**.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMI FILM PLUS** or **CERMI FILM PLUS BETON** prior to application.

APPLICATION

- Slowly add 25 kg of **CERMIPLUS XL** to 5.5 - 6.5 l (22-26%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- When prepared, the mortar should have a consistency that will not flow when taken on the trowel.
- After **CERMIPLUS XL** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMIPLUS XL** is 30 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- The prepared mixture should be consumed within 3 hours.

• For coating materials larger than 40x40 cm, a combined adhesion method (i.e. adhesive application both on the surface and on the back of the tile) should be used. Consumption may increase by 30-50% approximately.

• Proceed to the process of grouting at least 24 hours after the adhesion process.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMINET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- It is recommended to adhere 60 cm x 60 cm tiles up to a maximum height of 10 m on exterior facades. Please contact Koramic Technical Services Department for different applications.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- For applications to be made on large areas, necessary expansion joints should be allowed considering the thermal stress and mechanical loads that may occur on the surfaces and they should be filled with suitable **CERMI THANE** mastic or **CERMI TAPE FPO** expansion profiles.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as bathroom, shower, WC, etc., waterproofing should be done with **CERMI PROOF SF/FF/FF PLUS** prior to tile application.

SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIBLOCK EXTRA

CEMENT-BASED, GAS CONCRETE MASONRY MORTAR



Grey

- *Easy and fast application*
- *Long working time*



PRODUCT INFORMATION

WHERE TO USE

• Bonding and knitting of building materials such as gas concrete, pumice block, brick, etc.

GENERAL FEATURES

| | |
|----------------|-------------------------------------------------------------------------------------|
| Nature | : Powder product containing high quality cement, application facilitating additives |
| Colour | : Grey |
| Density | : $1.2 \pm 0.05 \text{ g/cm}^3$ |

TECHNICAL CHARACTERISTICS (*)

Tensile strength

| | |
|---------------------------|------------------------------------------|
| - Initial (after 28 days) | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After heat ageing | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After water ageing | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - After freeze-thaw cycle | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |
| - Open time | : $\geq 0,5 \text{ Mpa (N/mm}^2\text{)}$ |

(after 30 minutes)

Temperature resistance : -15 °C - +70 °C

Fire resistance class : A1 (TS EN 13501 – 1)

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

STANDARDS AND DOCUMENTS

- Conforms to TS EN 12004-1 standard.
- Public works pos. No. : 10.330.3302

CONSUMPTION

• Average $1.5 \text{ kg/m}^2/\text{mm}$ (Proportions according to the block thickness and the comb size to be selected accordingly.)

PACKAGING

- In kraft bags, 25 kg, (48 pcs / 1200 kg per palette)

STORAGE

- Maximum 10 kraft bags can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



Interior –
Exterior



Surface
Inspection



Application
Temperature



Homogeneous
Mixture



Application with
Notched Trowel

APPLICATION

APPLICATION PROCEDURE

Mixture ratio: 5.5 – 6.5 l water for 25 kg powder product

Time for use of mixture (Pot life): 1 hour

Application temperature: +5°C to +35°C

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- In order to eliminate the irregularities on the ground, the first row should be brought to the scale and knitted, this process is not necessary for the other rows.

APPLICATION

- Slowly add 25 kg of **CERMIBLOCK EXTRA** to 5.5 - 6.5 l (22-26%) of clean water and mix with a low-speed mixer until it becomes homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes, then stir again for 1-2 minutes prior to application.
- The **CERMIBLOCK EXTRA**, which spreads well on the surface with the flat side of the notched steel trowel, must then be combed upon the desired notch thickness.
- While walling, maximum 3 mm width joint gaps should be left in horizontal and vertical, and it should be ensured that these gaps should not be filled with adhesive.
- Aerated concrete adhesive process should be performed on the applied mortar within 10-15 minutes.
- After the bonding process is completed, plaster application can be started.



RECOMMENDATIONS

- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Products with petrification detected after opening should not be used.

SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFIX HP

**ACRYLIC DISPERSION BASED, READY TO USE,
NON-SHIFT, PASTE TYPE ADHESIVE MORTAR**



White



- *Clean and easy application for renovation and modification works*
- *Strong adhesion performance*
- *Easy trowelling*

- *Practical solution on difficult surfaces with its elastic structure*
- *Capability of laying ceramic from top to bottom without shifting*

PRODUCT INFORMATION

WHERE TO USE

- For ceramic tiling applications on surfaces such as gypsum plaster boards, cement chipboard (betopan) etc.,
- For ceramic tiling on difficult surfaces such as paint, ceramic, exposed concrete etc.,
- It offers practical solutions for bonding thermal insulation boards indoors.

GENERAL FEATURES

| | |
|----------------|-------------------------------------------------------------------------------------|
| Nature | : Emulsion-based fillers, ready-made dispersion containing additives for elasticity |
| Colour | : White |
| Density | : $1.75 \pm 0.05 \text{ gr/cm}^3$ |



TECHNICAL CHARACTERISTICS (*)

Shear bond strength

| | |
|-------------------------------------------------|------------------------------------------|
| - Initial (after 28 days) | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After heat ageing | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After water ageing | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - After freeze-thaw cycle | : $\geq 1 \text{ Mpa (N/mm}^2\text{)}$ |
| - Open time tensile strength (after 20 minutes) | : $\geq 0.5 \text{ MPa (N/mm}^2\text{)}$ |

Shear : $\leq 0.5 \text{ mm}$

Flexibility : Medium

Temperature resistance : $-30^\circ\text{C} - +70^\circ\text{C}$

Fire resistance class : A1 (TS EN 13501 – 1)

(*)These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

CONSUMPTION

- 3-4 kg/m² in average

PACKAGING

- In 15 kg plastic bucket packaging (44 pcs / 660 kg per palette)
- In 5 kg plastic bucket packaging (60 pcs / 300 kg per palette)

STORAGE

- Maximum 2 palettes can be stacked on each other.
- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.

STANDARDS AND DOCUMENTS

- TS EN 12004-1/D2T class
- Public works pos. No. : 10.300.2207



Interior



Surface
Inspection



Application
Temperature



Application with
Notched Trowel



Work Duration

APPLICATION

APPLICATION PROCEDURE

Mixture ratio: mixture ready to use

Time allowance for working and tile correction: 20 minutes

Time for use of mixture (Pot life): 3 hours

Application temperature: +5°C to +35°C

Time for foot traffic: minimum 24 hours

Pointing time: after minimum 24 hours

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMFILM** prior to application.
- Overheated surfaces exposed to direct sunlight should be moisturized before application.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMFLOOR** levelling screeds. Surface corrections up to 2 mm vertically and 7 mm horizontally can be made with **CERMIFIX HP**.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMFILM PLUS** or **CERMFILM PLUS BETON** prior to application.

APPLICATION

- CERMIFIX HP** is a ready-to-use tile adhesive. It can be used directly after opening the package.
- No other liquid or solid additives such as water, performance-enhancing additives or cement should be added into the product.
- After **CERMIFIX HP** is applied to the surface with a toothed steel trowel selected in accordance with the tile size, it should be trowelled to obtain a smooth adhesion surface.
- The working time of **CERMIFIX HP** is 20 minutes. However, under different ambient conditions (e.g. low/high temperature, humidity, wind, etc.) the working time may be shorter or longer. For this reason, care should be taken to ensure that the adhesive does not form a film-crust on the surface during application and any film, if any, should be scraped off.
- In order for the adhesion to be firm and the adhesive to be fully spread on the back of the tile, the tile should be lightly tamped by using a rubber mallet.
- Unpacked product mixture should be consumed within 3 hours.
- Proceed to the process of grouting at least 24 hours after the adhesion process.

RECOMMENDATIONS

- After application, wash all tools you used with water and remove off any mortar residues left on the surface with **CERMINET**.
- After application, the surface should be protected from contact with water for at least 24 hours.
- It should not be applied in case of freezing risk or on overheated surfaces, under direct sunlight and in high winds.
- Do not apply directly on difficult surfaces such as metal, PVC, wood, cement-based chipboard etc.; consult technical service for solution.
- Do not apply on newly plastered or concrete surfaces before the curing process is completed.
- In ceramic-on-ceramic applications, the drying time of the product can be up to 1 week depending on the ambient conditions and size. For this reason, cement-based, high-performance adhesive mortars are recommended for bonding large-sized ceramics with low water absorption.
- Do not use the product if you observe any petrification after unpacking it.
- White coloured adhesives should be used for bonding light coloured and water-absorbent coating materials.
- In case of in wet areas such as bathroom, shower, WC, etc., waterproofing should be done with **CERMIPROOF SF/FF/FF PLUS** prior to tile application.



SAFETY INSTRUCTIONS

- Do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFIX PU 2C

**POLYURETHANE BASED, 2-COMPONENT,
SOLVENT FREE,
MULTIPURPOSE TILE ADHESIVE**



Beige

- **High adhesion strength**
- **High flexibility**
- **Suitable to use on many different surfaces**

- **Solvent free**
- **Suitable for repair, filling, waterproofing purposes**

PRODUCT INFORMATION

WHERE TO USE

- Porcelain tile, granite, marble, ceramic tile etc. coating materials, metal,
- It can be applied to various surfaces such as cemented particle board (betopan), wood, concrete, plasterboard.
- For bonding thin and very large sized special ceramics with epoxy laminated back.

GENERAL FEATURES

- Chemical Structure** : Polyurethane
Density : ~1,55 gr/cm³ A+B Component (DIN EN ISO 2811-1)
Color : Beige
Solid Content : ~100% (by weight)

TECHNICAL CHARACTERISTICS (*)

Tensile strength

- initial (after 28 days): ≥ 2 MPa (N/mm²)
- after heat ageing : ≥ 2 MPa (N/mm²)
- after water ageing : ≥ 2 MPa (N/mm²)
- after freeze-thaw cycle: ≥ 2 MPa (N/mm²)
- wait time as exposed (after 30 min): ≥ 1 MPa (N/mm²)

Shifting : ≤ 0.5 mm

Flexibility : Excellent

Temperature resistance : -30 °C - +80 °C

Fire resistance class : A1 (TS EN 13501 - 1)

Shore A Hardness : 55-65 (ASTM D2240)

(*)These values are obtained as a result of laboratory experiments, +23 °C, 50% r.h. Values may vary due to differences in the construction site environment.

STANDARDS AND DOCUMENTS

- Tested according to TS EN 12004 standards.
- CE



CONSUMPTION

- 1.25 kg/m² (with 4x4x4 mm comb)

PACKAGING

- 7 kg (6.25±0.75) metal bucket

STORAGE

- It should be stored in moisture-free, dry warehouses which are well-protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be stored as tightly sealed.



Interior -
Exterior



Surface
Inspection



Application
Temperature



Application with
Notched Trowel



Very Flexible



Two
Components



Oversized Tile



Freeze Thaw
Resistance



Water
Resistance



SOLVENT-
FREE

APPLICATION

APPLICATION PROCEDURE

Mixing ratio (A+B) : 6.25 : 0.75 (by weight)

Application temperature : Min. +15 °C / Max. +35 °C

Time for use of mixture (Pot life): 30-45 minutes (+20 °C)

Hardening time: 5 hours (+20 °C)

NOTE: These tests were carried out under laboratory conditions. Times are approximate. It will be affected by changing ambient conditions, especially temperature and relative humidity.

SUBSTRATE PREPARATION

- The application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Any surface defects, cracks and holes should be corrected and repaired with **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMIFFLOOR** levelling screeds.

APPLICATION

- From **CERMIFIX PU 2C** components, first component A is mixed within itself, then component B is added into A and mixed very well until a homogeneous color is obtained.
- Mechanical mixers with minimum 300-400 rpm power should be used for mixing.
- The mixture is applied by combing the surface with a notched trowel (4x4x4 mm tooth size).
- Ceramic, parquet or rubber rolls should be adhered within 30-45 minutes.
- The mixture should be consumed within max. 45 minutes.



RECOMMENDATIONS

- Do not apply on frost hazardous or overheated surfaces, under direct sun and in high winds.
- In cold weather, packages should be stored at minimum 15-20 °C room temperature at least 24 hours before application.
- After application, the surface should be protected from water, rain, snow etc. until it dries.
- It should be taken into consideration that full mechanical and chemical resistance will occur within 7 days.

SAFETY INSTRUCTIONS

- Do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIJOINT 1-6 EXTRA

**CEMENT BASED,
STANDARD PERFORMANCE JOINT FILLER**



Different color alternatives

- *Showing the color completely with its smooth surface*
- *Easy application and cleaning*

- *Abrasion resistant*
- *Cracking, non-collapsing*

PRODUCT INFORMATION

WHERE TO USE

• Ceramic, marble, natural stone, glass mosaic etc. joint of coating materials (between 1-6 mm) indoors it is suitable for filling applications.

GENERAL FEATURES

Structure : High quality cement, filler, performance enhancer powder product containing polymer additives.

Color : Different color alternatives

Density : $1.40 \pm 0,05 \text{ gr/cm}^3$

TECHNICAL CHARACTERISTICS

Water absorption (after 30 minutes): $\leq 5 \text{ g}$

Water absorption (after 240 minutes): $\leq 10 \text{ g}$

Moisture resistance: good

Alkali resistance: good

Acid resistance: good (for $\text{Ph} > 3$ acids)

Temperature resistance: $-30^\circ\text{C} - +70^\circ\text{C}$

Flexural strength: $\geq 2.5 \text{ MPa (N/mm}^2\text{)}$

Compressive strength: $\geq 15 \text{ MPa (N/mm}^2\text{)}$

Abrasion resistance: $\leq 2000 \text{ mm}^3$

Shrinkage value: $\leq 3 \text{ mm/m}$

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions

PACKAGING

- 20 kg kraft bag

STANDARDS AND DOCUMENTS

- EN 13888 / CGI class
- G
- Public works pos. No. : 10.300.2232

CONSUMPTION

| | | According to Joint Width Approximate Consumption (gr/m ²) | | |
|----------------------------|---------------------------|--------------------------------------------------------------------------|------|------|
| Tile Dimensions (cm) | Tile Thickness (mm) | 2 mm | 3 mm | 5 mm |
| 10x10 | 6 | 400 | 600 | 950 |
| 20x20 | 8 | 275 | 400 | 650 |
| 30x30 | 8 | 175 | 250 | 400 |
| 30x60 | 8 | 140 | 200 | 325 |
| 45x45 | 8 | 125 | 180 | 300 |
| 60x60 | 9 | 100 | 150 | 250 |

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life, under suitable storage conditions 1 year in kraft packages, 2 years in polyethylene packages.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Mixing ratio: 5.8-6.6 lt water for 20 kg powder product
Time to use the mixture (pot life): 1 hour
Application temperature: +5 °C - +35 °C
Recommended joint width: 1-6 mm
Set time: Minimum 24 hours (for light pedestrian traffic)

SUBSTRATE PREPARATION

- Joint gaps are made of residues preventing adhesion, must be clean, completely empty and smooth.
- After the adhesive application, the recommended waiting time does not pass, grouting should not be applied.
- Joint gaps in highly absorbent ceramics, in high air temperature or in extremely windy environments should be moistened with clean water before application.

APPLICATION

- 20 kg of **CERMIJOINT 1-6 EXTRA** should be added to 5.8-6.6 liters (29-33%) clean water slowly and mixed with a low-speed mixer until homogeneous.
- Let the mixture rest for 5 minutes, then apply. It is mixed again for 1-2 minutes before starting.
- The prepared mortar will not flow when it is taken on the trowel should be in consistency.
- The prepared **CERMIJOINT 1-6 EXTRA** should be spread on the surface and circular parallel and diagonal joint trowel with rubber sole joint gaps should be filled completely with movements. If the application is made only with parallel movements, the joint filler separation, deterioration and roughening on the surface of the material visible.
- The joint filling process should be continued in the same direction in which it was started. Excess filling joint mortar should be peeled off the surface and cleaned.
- Let the joint filler material dry and the surface when it starts to dull, under normal conditions after 10-15 minutes, the residues on the surface are cleaned with a damp sponge. It should be cleaned using circular movements.
- Before the time of the cleaning process, dirty or excessive done with a wet sponge; dusting on the surface of the product, moisture, color fluctuation, pinhole or collapse may cause such problems.



RECOMMENDATIONS

- All tools used after the application should be washed with water.
- Jointed surfaces should be protected from sunlight, frost and rain for at least 24 hours.
- Before applying with highly absorbent, porous or stain sensitive coating materials, a preliminary test should be made and necessary precautions should be taken against staining.
- The use of bleach, lime remover, etc. abrasive general cleaning materials may cause damage to colored grouts.
- It should not be applied on frost-hazardous or corroded surfaces, under direct sun and in strong windy environments.
- Be very careful to add water to the product at the specified rate. Adding more or less water than specified may cause problems such as color fluctuation, cracking, dusting.
- If joint application is to be made in very hot, dry or windy weather, it is recommended to moisten the surface after 1-2 hours. This process will increase the final strength of the product.
- Products with petrification detected after opening should not be used.
- It is recommended to use **CERMIJOINT FLEX** for outdoor applications or for grouting of large sized coating materials.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIJOINT 3-10 FLEX

CEMENT BASED, HIGH PERFORMANCE, SILICONE ADDED, ELASTIC, HYGIENIC JOINT FILLER



Different color alternatives



- *Showing the color completely with its smooth surface*
- *Hard to dirty, easy to clean*
- *Easy to apply, does not crack and collapse*

- *Proven bacteria resistance, mold and algae-free*
- *Water repellent and elastic*
- *High resistance to thermal shocks and abrasion*

PRODUCT INFORMATION

WHERE TO USE

- Underfloor heating, terrace, etc. in areas with high temperature changes,
- Shopping mall, school, hotel etc. in floor applications subject to heavy pedestrian traffic,
- Pool, Turkish bath, bathroom, etc. in wet areas,
- Ideal for grouting applications between 2-12 mm indoors and outdoors of porcelain ceramic, granite ceramic, natural stone, ceramic, cotto, marble, glass mosaic etc. coating materials.

GENERAL FEATURES

Structure : High quality cement, filler, performance enhancer powder product containing polymer additives and silicone.

Color : Different color alternatives

Density : $1.40 \pm 0,05 \text{ gr/cm}^3$

TECHNICAL CHARACTERISTICS

Water absorption (after 30 minutes): $\leq 2 \text{ g}$

Water absorption (after 240 minutes): $\leq 5 \text{ g}$

Moisture resistance: Perfect

Alkali resistance: Perfect

Acid resistance: good (for $\text{Ph} > 3$ acids)

Temperature resistance: $-30^\circ\text{C} - +70^\circ\text{C}$

Flexural strength: $\geq 2.5 \text{ MPa (N/mm}^2\text{)}$

Compressive strength: $\geq 15 \text{ MPa (N/mm}^2\text{)}$

Abrasion resistance: $\leq 1000 \text{ mm}^3$

Shrinkage value: $\leq 2 \text{ mm/m}$

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions

STANDARDS AND DOCUMENTS

- EN 13888 / CG2 WA class
- G
- Public works pos. No. : 10.300.2232

CONSUMPTION

According to Joint Width
Approximate Consumption (gr/m²)

| Tile Dimensions (cm) | Tile Thickness (mm) | 2 mm | 3 mm | 5 mm | 8 mm |
|----------------------|---------------------|------|------|------|------|
| 10x10 | 6 | 400 | 600 | 950 | 1525 |
| 20x20 | 8 | 275 | 400 | 650 | 1050 |
| 30x30 | 8 | 175 | 250 | 400 | 650 |
| 30x60 | 8 | 140 | 200 | 325 | 525 |
| 45x45 | 8 | 125 | 180 | 300 | 480 |
| 60x60 | 9 | 100 | 150 | 250 | 400 |
| 60x120 | 9 | 80 | 120 | 190 | 310 |

PACKAGING

- 10 and 20 kg kraft bags
- 1 and 5 kg polyethylene packaging

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year in kraft packages and 2 years in polyethylene packages under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior - Exterior



Hygienic



2-12 mm



Homogeneous Mixture



Flexible



Application Temperature



Freeze Thaw Resistance



Floor Heating



Pedestrian Traffic



Easy Cleaning

UYGULAMA

APPLICATION PROCEDURE

Mixing ratio: 5.8-6.6 lt water for 20 kg powder product
Time to use the mixture (pot life): 1 hour
Application temperature: +5 °C - +35 °C
Recommended joint width: 2-12 mm
Set time: Minimum 24 hours (for light pedestrian traffic)

SUBSTRATE PREPARATION

- Joint gaps are made of residues preventing adhesion, must be clean, completely empty and smooth.
- After the adhesive application, the recommended waiting time does not pass, grouting should not be applied.
- Joint gaps in highly absorbent ceramics, in high air temperature or in extremely windy environments should be moistened with clean water before application.

APPLICATION

- 20 kg of **CERMIJOINT 3-10 FLEX** should be added to 5.8-6.6 liters (29-33%) clean water slowly and mixed with a low-speed mixer until homogeneous.
- Let the mixture rest for 5 minutes, then apply. It is mixed again for 1-2 minutes before starting.
- The prepared mortar will not flow when it is taken on the trowel should be in consistency.
- The prepared **CERMIJOINT 3-10 FLEX** should be spread on the surface and circular parallel and diagonal joint trowel with rubber sole joint gaps should be filled completely with movements. If the application is made only with parallel movements, the joint filler separation, deterioration and roughening on the surface of the material visible.
- The joint filling process should be continued in the same direction in which it was started. Excess filling joint mortar should be peeled off the surface and cleaned.
- Let the joint filler material dry and the surface when it starts to dull, under normal conditions after 10-15 minutes, the residues on the surface are cleaned with a damp sponge. It should be cleaned using circular movements.
- Before the time of the cleaning process, dirty or excessive done with a wet sponge; dusting on the surface of the product, moisture, color fluctuation, pinhole or collapse may cause such problems.

RECOMMENDATIONS

- All tools used after the application should be washed with water.
- Jointed surfaces should be protected from sunlight, frost and rain for at least 24 hours.
- Before applying with highly absorbent, porous or stain sensitive coating materials, a preliminary test should be made and necessary precautions should be taken against staining.
- The use of bleach, lime remover, etc. abrasive general cleaning materials may cause damage to colored grouts.
- It should not be applied on frost-hazardous or corroded surfaces, under direct sun and in strong windy environments.
- Be very careful to add water to the product at the specified rate. Adding more or less water than specified may cause problems such as color fluctuation, cracking, dusting.
- If joint application is to be made in very hot, dry or windy weather, it is recommended to moisten the surface after 1-2 hours. This process will increase the final strength of the product.
- Products with petrification detected after opening should not be used.
- In applications to be made in large areas, necessary expansion joints should be left considering the thermal stress and mechanical loads that may occur on the ground. It should be filled with **CERMITHANE** sealant or **CERMITAPE FPO** expansion profiles.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIJOINT 0-3 FLEX

CEMENT BASED, HIGH PERFORMANCE, SILICONE ADDITIVE, THIN FILLED, ELASTIC, HYGIENIC JOINT FILLER



Different color alternatives



- *Showing the color completely with its smooth surface*
- *Hard to dirty, easy to clean*
- *Easy to apply, does not crack and collapse*

- *Proven bacteria resistance, mold and algae-free*
- *Water repellent and elastic*
- *High resistance to thermal shocks and abrasion*

PRODUCT INFORMATION

WHERE TO USE

- Underfloor heating, terrace, etc. in areas with high temperature changes,
- Shopping mall, school, hotel etc. in floor applications subject to heavy pedestrian traffic,
- Pool, Turkish bath, bathroom, etc. in wet areas,
- Ideal for joint filling applications of porcelain ceramic, granite ceramic, natural stone, ceramic, cotto, marble, glass mosaic etc. coating materials up to a maximum of 5 mm indoors and outdoors.

GENERAL FEATURES

Structure: High quality cement, filler, performance enhancer powder product containing polymer additives and silicone.

Color : Different color alternatives

Density: $1.40 \pm 0,05 \text{ gr/cm}^3$

TECHNICAL CHARACTERISTICS

Water absorption (after 30 minutes): $\leq 2 \text{ g}$

Water absorption (after 240 minutes): $\leq 5 \text{ g}$

Moisture resistance: Perfect

Alkali resistance: Perfect

Acid resistance: good (for $\text{Ph} > 3$ acids)

Temperature resistance: $-30^\circ\text{C} - +70^\circ\text{C}$

Flexural strength: $\geq 2.5 \text{ MPa (N/mm}^2\text{)}$

Compressive strength: $\geq 15 \text{ MPa (N/mm}^2\text{)}$

Abrasion resistance: $\leq 1000 \text{ mm}^3$

Shrinkage value: $\leq 2 \text{ mm/m}$

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions

PACKAGING

- 10 and 20 kg kraft bags and 5 kg polyethylene packaging

STANDARDS AND DOCUMENTS

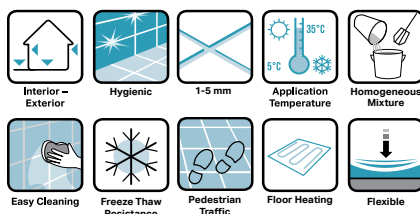
- EN 13888 / CG2 WA class
- G
- Public works pos. No. : 10.300.2232

CONSUMPTION

| | | According to Joint Width Approximate Consumption (gr/m ²) | | |
|----------------------|---------------------|--------------------------------------------------------------------------|------|------|
| Tile Dimensions (cm) | Tile Thickness (mm) | 2 mm | 3 mm | 5 mm |
| 10x10 | 6 | 400 | 600 | 950 |
| 20x20 | 8 | 275 | 400 | 650 |
| 30x30 | 8 | 175 | 250 | 400 |
| 30x60 | 8 | 140 | 200 | 325 |
| 45x45 | 8 | 125 | 180 | 300 |
| 60x60 | 9 | 100 | 150 | 250 |
| 60x120 | 9 | 80 | 120 | 190 |

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life, under suitable storage conditions 1 year in kraft packages, 2 years in polyethylene packages.
- Opened packages should be kept tightly closed.



CERMIJOINT 0-3 FLEX

APPLICATION

APPLICATION PROCEDURE

Mixing ratio: 6.2-7.0 lt water for 20 kg powder product

Time to use the mixture (pot life): 1 hour

Application temperature: +5 °C - +35 °C

Recommended joint width: max. 5 mm

Set time: Minimum 24 hours (for light pedestrian traffic)

SUBSTRATE PREPARATION

- Joint gaps are made of residues preventing adhesion, must be clean, completely empty and smooth.
- After the adhesive application, the recommended waiting time does not pass, grouting should not be applied.
- Joint gaps in highly absorbent ceramics, in high air temperature or in extremely windy environments should be moistened with clean water before application.

APPLICATION

- 20 kg of **CERMIJOINT 0-3 FLEX** should be added to 6.2-7.0 liters (31-35%) clean water slowly and mixed with a low-speed mixer until homogeneous.
- Let the mixture rest for 5 minutes, then apply. It is mixed again for 1-2 minutes before starting.
- The prepared mortar will not flow when it is taken on the trowel should be in consistency.
- The prepared **CERMIJOINT 0-3 FLEX** should be spread on the surface and circular parallel and diagonal joint trowel with rubber sole joint gaps should be filled completely with movements. If the application is made only with parallel movements, the joint filler separation, deterioration and roughening on the surface of the material visible.
- The joint filling process should be continued in the same direction in which it was started. Excess filling joint mortar should be peeled off the surface and cleaned.
- Let the joint filler material dry and the surface when it starts to dull, under normal conditions after 10-15 minutes, the residues on the surface are cleaned with a damp sponge. It should be cleaned using circular movements.
- Before the time of the cleaning process, dirty or excessive done with a wet sponge; dusting on the surface of the product, moisture, color fluctuation, pinhole or collapse may cause such problems.



RECOMMENDATIONS

- All tools used after the application should be washed with water.
- Jointed surfaces should be protected from sunlight, frost and rain for at least 24 hours.
- Before applying with highly absorbent, porous or stain sensitive coating materials, a preliminary test should be made and necessary precautions should be taken against staining.
- The use of bleach, lime remover, etc. abrasive general cleaning materials may cause damage to colored grouts.
- It should not be applied on frost-hazardous or corroded surfaces, under direct sun and in strong windy environments.
- Be very careful to add water to the product at the specified rate. Adding more or less water than specified may cause problems such as color fluctuation, cracking, dusting.
- If joint application is to be made in very hot, dry or windy weather, it is recommended to moisten the surface after 1-2 hours. This process will increase the final strength of the product.
- Products with petrification detected after opening should not be used.
- In applications to be made in large areas, necessary expansion joints should be left considering the thermal stress and mechanical loads that may occur on the ground. It should be filled with **CERMITHANE** sealant or **CERMITAPE FPO** expansion profiles.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIJOINT 2-10 HRC

**CEMENT BASED, HIGH PERFORMANCE,
CHEMICAL RESISTANCE, ELASTIC, HYGIENIC
JOINT FILLER**



Gray



White



- *Improved chemical resistance*
- *Proven bacteria resistance*
- *High abrasion and crack resistance*

- *High resistance to thermal shocks and surface movements*
- *Fast setting and non-collapsing*
- *High water repellency*

PRODUCT INFORMATION

WHERE TO USE

- With its high water repellent feature, it can be used in pools, water tanks, Turkish baths, etc. in wet areas,
- In industrial areas that require chemical resistance against solvents, weak acids and bases,
- In salty and sulfated water tanks,
- Underfloor heating, terrace, shopping mall, hotel, etc. on rough terrain,
- Ideal for grouting applications between 2-10 mm of coating materials such as porcelain ceramic, granite ceramic, natural stone, ceramic, cotto, marble, glass mosaic etc.

GENERAL FEATURES

Structure: High quality cement, elasticity powder product containing additives, silicone, thin filler and water repellent

Color : White and Gray

Density: $1.40 \pm 0,05 \text{ gr/cm}^3$

TECHNICAL CHARACTERISTICS

Water absorption (after 30 minutes): $\leq 2 \text{ g}$

Water absorption (after 240 minutes): $\leq 5 \text{ g}$

Moisture resistance: Perfect

Alkali resistance: Perfect

Acid resistance: good (for $\text{Ph} > 3$ acids)

Temperature resistance: $-40^\circ\text{C} - +80^\circ\text{C}$

Flexural strength: $\geq 2.5 \text{ MPa (N/mm}^2\text{)}$

Flexural strength (freeze-thaw): $\geq 2.5 \text{ MPa (N/mm}^2\text{)}$

Compressive strength: $\geq 15 \text{ MPa (N/mm}^2\text{)}$

Compressive strength (freeze-thaw): $\geq 15 \text{ MPa (N/mm}^2\text{)}$

Abrasion resistance: $\leq 1000 \text{ mm}^3$

Shrinkage value: $\leq 2 \text{ mm/m}$

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions

PACKAGING

- 15 kg plastic bucket

STANDARDS AND DOCUMENTS

- EN 13888 / CG2 WA class
- G
- Public works pos. No. : 10.300.2232

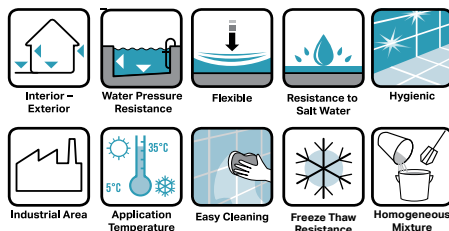
CONSUMPTION

According to Joint Width
Approximate Consumption (gr/m²)

| Tile Dimensions (cm) | Tile Thickness (mm) | 2 mm | 3 mm | 5 mm | 8 mm |
|----------------------|---------------------|------|------|------|------|
| 10x10 | 6 | 400 | 600 | 950 | 1525 |
| 20x20 | 8 | 275 | 400 | 650 | 1050 |
| 30x30 | 8 | 175 | 250 | 400 | 650 |
| 30x60 | 8 | 140 | 200 | 325 | 525 |
| 45x45 | 8 | 125 | 180 | 300 | 480 |
| 60x60 | 9 | 100 | 150 | 250 | 400 |
| 60x120 | 9 | 80 | 120 | 190 | 310 |

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Mixing ratio: 3.3-3.6 lt water for 15 kg package

Time to use the mixture (pot life): Maximum 45 minutes

Application temperature: +5 °C - +35 °C

Recommended joint width: 2-10 mm

Jointing time: also specified in the type of adhesive used

Opening time: 3 hours

SUBSTRATE PREPARATION

- Joint gaps are made of residues preventing adhesion, must be clean, completely empty and smooth.
- After the adhesive application, the recommended waiting time does not pass, grouting should not be applied.
- Joint gaps in highly absorbent ceramics, in high air temperature or in extremely windy environments should be moistened with clean water before application.

APPLICATION

- 15 kg of **CERMIJOINT 2-10 HRC** should be added to 3.3-3.6 liters (22-24%) clean water slowly and mixed with a low-speed mixer until homogeneous.
- Let the mixture rest for 5 minutes, then apply. It is mixed again for 1-2 minutes before starting.
- The prepared mortar will not flow when it is taken on the trowel should be in consistency.
- The prepared **CERMIJOINT 2-10 HRC** should be spread on the surface and circular parallel and diagonal joint trowel with rubber sole joint gaps should be filled completely with movements. If the application is made only with parallel movements, the joint filler separation, deterioration and roughening on the surface of the material visible.
- The joint filling process should be continued in the same direction in which it was started. Excess filling joint mortar should be peeled off the surface and cleaned.
- Let the joint filler material dry and the surface when it starts to dull, under normal conditions after 10-15 minutes, the residues on the surface are cleaned with a damp sponge. It should be cleaned using circular movements.
- Before the time of the cleaning process, dirty or excessive done with a wet sponge; dusting on the surface of the product, moisture, color fluctuation, pinhole or collapse may cause such problems.



RECOMMENDATIONS

- All tools used after the application should be washed with water.
- Jointed surfaces should be protected from sunlight, frost and rain for at least 24 hours.
- Before applying with highly absorbent, porous or stain sensitive coating materials, a preliminary test should be made and necessary precautions should be taken against staining.
- For detailed information about the chemical resistance of the product in industrial flooring applications, please contact Koramic Technical Services Department.
- It should not be applied on frost-hazardous or corroded surfaces, under direct sun and in strong windy environments.
- Be very careful to add water to the product at the specified rate. Adding more or less water than specified may cause problems such as color fluctuation, cracking, dusting.
- If joint application is to be made in very hot, dry or windy weather, it is recommended to moisten the surface after 1-2 hours. This process will increase the final strength of the product.
- Products with petrification detected after opening should not be used.
- In applications to be made in large areas, necessary expansion joints should be left considering the thermal stress and mechanical loads that may occur on the ground. It should be filled with **CERMITHANE** sealant or **CERMITAPE FPO** expansion profiles.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIJOINT EPOSOL PRO



**EPOXY RESIN BASED, HIGH PERFORMANCE,
CHEMICAL RESISTANT, SOLVENT FREE,
2 COMPONENT ADHESIVE AND JOINT FILLER**



Grey



White



Beige



Anthracite

- It can also be used as an adhesive on surfaces
- High mechanical and chemical resistance
- High resistance to external weather conditions and thermal shocks
- Resistant to bacteria, mold growth and contamination
- Water-based, environmentally friendly formula

PRODUCT INFORMATION

WHERE TO USE

- Food requiring high chemical and mechanical resistance production, hospital, laboratory, auto service etc. industrial in facilities,
- Commercial kitchen, restaurant, cafe etc. hygiene required in places,
- For use in waste water treatment plants, thermal pools suitable.
- Acid resistant porcelain tile, granite ceramic, cotto, marble etc. 2-10 mm joint filling of coating materials in applications.

GENERAL FEATURES

Material structure :

- A component : Epoxy resin

- B component : Hardener

Color : Grey / white / beige / anthracite

Density: $1.70 \pm 0.1 \text{ gr/cm}^3$ (A+B mix)

TECHNICAL CHARACTERISTICS

Water absorption (after 240 minutes): $\leq 0.1 \text{ g}$

Moisture resistance: Perfect

Temperature resistance: $-20^\circ\text{C} - +80^\circ\text{C}$

Flexural strength: $\geq 30 \text{ MPa (N/mm}^2\text{)}$

Compressive strength: $\geq 45 \text{ MPa (N/mm}^2\text{)}$

Abrasion resistance: $\leq 250 \text{ mm}^3$

Shrinkage value: $\leq 1.5 \text{ mm/m}$

(*) These values are results of laboratory tests and they are performance values recorded 28 days after the finished applications. The values may vary because of different site conditions.

STANDARDS AND DOCUMENTS

- EN 13888 / RG class
- G
- Public works pos. No. : 10.300.2233

CONSUMPTION

According to Joint Width Approximate Consumption (gr/m²)

| Tile Dimensions (cm) | Tile Thickness (mm) | 2 mm | 3 mm | 5 mm |
|----------------------|---------------------|------|------|------|
| 10x10 | 6 | 450 | 675 | 1125 |
| 20x20 | 8 | 300 | 450 | 750 |
| 30x30 | 8 | 200 | 300 | 500 |
| 30x60 | 8 | 150 | 225 | 375 |
| 45x45 | 8 | 135 | 200 | 335 |
| 60x60 | 9 | 115 | 170 | 280 |
| 60x120 | 9 | 85 | 130 | 210 |

PACKAGING

- 5 kg plastic bucket
- (4 kg A component + 1 kg B component)

STORAGE

- Care should be taken to place maximum 4 metal boxes on top of each other for storage.
- Stocked in closed warehouses that are moisture-free, dry and protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.
- Storage below 12°C is not recommended as crystallization may occur in the product stored at low temperatures. Crystallization formation may make the application of the product difficult. For this reason, products stored below $+12^\circ\text{C}$ should be kept at $+23^\circ\text{C}$ room temperature for 1-2 days before application.



Interior - Exterior



Epoxy



Two Components



Pot Life



Heavy Load Traffic

APPLICATION

APPLICATION PROCEDURE

Mixture usability time (pot life) :

50 minutes at +20 °C,

40 minutes at +30 °C,

Application temperature : +12 °C - +30 °C

Recommended joint width : 2-10 mm

Set time : Minimum 24 hours

Waiting time for chemical resistance : 7-8 days

SUBSTRATE PREPARATION

- Joint gaps must be cleaned of adhesion inhibiting residues and must be completely empty and smooth.
- Joint fillings should not be applied before the recommended waiting period is completed after the adhesive application.
- Moisture of the application surface should be maximum 5%.

APPLICATION

- Component A and Component B should be mixed in the same bucket for minimum 3 minutes until homogenous and without lumps.
- The mixture should have a consistency that will not flow when troweled.
- The prepared joint filler material should be filled into the joint gaps with a rubber spatula or steel trowel. During the application, the mortar should not spread on the tile surface like cement based joint fillers and should not overflow out of the joint gaps as much as possible (Product consumption is reduced and final cleaning is facilitated). Remove excess grout from the surface.
- It is recommended to use special cleaning pads for epoxy applications for cleaning. In the first stage, rough cleaning is done with a thick filled pad. In the second stage, fine cleaning is done with a thin filled pad. The application should be done with circular movements to prevent the joint filling material from separating from the surface or deforming.
- In the final cleaning phase, the residues on the surface are removed using a damp sponge in diagonal (45-degree angle) movements.



RECOMMENDATIONS

- Water or any additive other than the components should not be added to the mixture, and the mixture ratio of A and B components should not be changed.
- After mixing components A and B, the product can be divided into 2-3 parts and applied separately to prevent rapid freezing of the mortar.
- In pool and industrial floor applications, a minimum of 7 days should be waited for the joint material to gain sufficient strength.
- The usable time of **CERMIJOINT EPOSOL PRO** may vary under unfavorable ambient conditions, but this time may decrease up to 10-15 minutes under higher temperature ambient conditions. For this reason, a wetness test should be performed by touching the joint surface with fingers in case of premature hardening. When the mortar does not get on the fingers, proceed to the cleaning stage.
- In applications to be made in large areas, necessary expansion joints should be left considering the thermal stress and mechanical loads that may occur in the floors, and filled with **CERMITHANE** mastic or **CERMITAPE FPO** expansion profiles.
- The grouted surfaces should be protected from direct sunlight, frost and rain for at least 24 hours.
- Due to external weather conditions and sunlight (UV), discoloration and yellowing of the hardened joint sealant material may occur. This is a natural behavior of epoxy resin based products, there is no loss of performance in the product.
- Discoloration may occur with prolonged exposure to certain chemically active substances (e.g. continuous contact with high concentrations of acids).
- It is not recommended to apply between the joints of porous materials such as Terracotta etc. without taking precautions against staining.
- In industrial floor applications, the acid or alkali balance in the environment must be checked absolutely. The effect of chemical products in the environment on the epoxy joint filling material should be checked from the Chemical Resistance Table.

SAFETY INSTRUCTIONS

- **CERMIJOINT EPOSOL PRO** contains epoxy resin and amine hardener.
- Avoid contact of the product with skin and eyes. Wash contact areas with plenty of water.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- Read the Product Safety Data Sheet (MSDS) for more detailed information.

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

EPOXY JOINT CHEMICAL RESISTANCE TABLE

| ALKALI RESISTANCE | | |
|-------------------------|---------------|------------|
| CHEMICAL NAME | CONCENTRATION | RESISTANCE |
| Sodium Hydroxide | 50% | + |
| Potassium Hydroxide 3 | 30% | + |
| Bleach* | 5% | (+) |
| Salt water Saturated | Saturated | + |
| Sugar water Saturated | Saturated | + |
| Hydrogen Peroxide | 1% | + |
| Potassium Permanganate* | 5% | (+) |
| Aqueous Ammonia | 25% | + |
| Acetic Acid | 2,5% | - |
| Hydrochloric Acid* | 37% | (+) |
| Citric Acid | 10% | + |
| Formic Acid* | 2,5% | + |
| Oxalic Acid | 10% | + |
| Lactic Acid | 2,50% | - |
| Phosphoric Acid* | 50% | (+) |
| Sulfuric Acid* | 50% | + |
| Chromic Acid* | | + |
| Mineral water | | + |
| Lemon juice* | | + |
| Coke* | | + |
| Descaler* | | (+) |
| RESISTANCE TO SOLVENTS | | |
| CHEMICAL NAME | CONCENTRATION | RESISTANCE |
| Glycerine | | + |
| Methanol | | + |
| Formaldehyde | 37% | + |
| Triethanolamine | | + |
| Trichloroethylene | | - |
| Monopropylene glycol | | + |
| Synthetic Thinner | | + |
| Acetone | | + |
| OIL RESISTANCE | | |
| CHEMICAL NAME | CONCENTRATION | RESISTANCE |
| Olive oil | | + |

* INDICATES COLOR CHANGE.

+ Resistant to related chemicals.

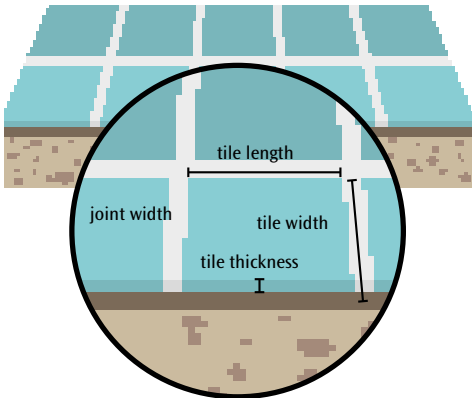
(+) It is resistant to the relevant chemicals in short-term contact.

- It is not resistant to related chemicals.

COLOR CHART FOR JOINT FILLERS

| PRODUCTS COLORS | CERMIJOINT 1-6 EXTRA | CERMIJOINT 0-3 FLEX | | | CERMIJOINT 3-10 FLEX | | | | CERMIJOINT 2-10 HRC | CERMIJOINT EPOSOL PRO |
|--------------------|-------------------------|------------------------|-------|------|-------------------------|-------|------|------|------------------------|-----------------------------|
| | 20 kg | 20 kg | 10 kg | 5 kg | 20 kg | 10 kg | 5 kg | 1 kg | 15 kg | 5 kg |
| WHITE | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| CREAM | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | |
| WHITE MOSS GREY | | | | ○ | | | ○ | ○ | | |
| JASMIN | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | |
| BEIGE | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | ○ |
| BAHAMA BEIGE | | | | ○ | | | ○ | ○ | | |
| SAHARA BEJ | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | |
| WHITE CLAY BEIGE | | | | ○ | | | ○ | ○ | | |
| CLAY BEIGE | | | | ○ | | | ○ | ○ | | |
| MOSS GREY | | | | ○ | | | ○ | ○ | | |
| EFES BEIGE | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | |
| GREEN | | | | ○ | | | ○ | ○ | | |
| ICE GREY | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | |
| SILVER (GREY) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| DARK GREY | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | |
| ANTHRACITE | | | | ○ | | | ○ | ○ | | ○ |
| BLACK | | | | ○ | | | ○ | ○ | | |
| STARDUST | | | | ○ | | | ○ | ○ | | |
| MOCHA BROWN | | | | ○ | | | ○ | ○ | | |

JOINT FILLERS CONSUMPTION TABLE



$$\text{Joint Filler Consumption (kg/m}^2\text{)} = \frac{(A+B) \times C \times D \times E}{(A \times B)}$$

| | | | |
|--------------------|------|-------------------------|-------|
| A : Tile length | (mm) | E : Density | |
| B : Tile width | (mm) | - CERMIJOINT 1-6 EXTRA | : 1,4 |
| C : Tile thickness | (mm) | - CERMIJOINT 0-3 FLEX | : 1,4 |
| D : Joint width | (mm) | - CERMIJOINT 3-10 FLEX | : 1,4 |
| | | - CERMIJOINT 2-10 HRC | : 1,4 |
| | | - CERMIJOINT EPOSOL PRO | : 1,7 |

* Calculation formula is theoretical. Please consider 10% more of calculated quantity because of the application casualities.

CERMIFILM

SYNTHETIC RESIN BASED, READY TO USE PRIMER



Pink

- Increasing adhesion to surfaces
- Prevents dusting on surfaces
- Ready to use

- Balancing the water absorbency of surfaces
- Solvent-free and odorless



PRODUCT INFORMATION

WHERE TO USE

- Increasing the adhesion strength of cement-based products to be applied by balancing the water absorbency of surfaces such as plaster, concrete, plaster, screed etc.
- Especially before ceramic tile coating, leveling screed, waterproofing, paint applications;
- It is used to prevent problems such as poor adhesion, cracking, peeling etc. by absorbing water quickly.

GENERAL FEATURES

Material structure : Liquid containing synthetic resin
Appearance : Liquid
Colour : Pink
Density : $1.0 \pm 0.1 \text{ gr/cm}^3$
 (ASTM D1475 DIN 53217 ISO 2811)

TECHNICAL CHARACTERISTICS

Moisture Resistance : Good
Resistance to Heat Aging : Perfect
Flexibility : Good
Acid and Alkali Resistance : Medium

(*) These values are obtained as a result of laboratory tests and are the performance values of the finished applications after 28 days. Values may vary due to differences in the construction site environment.

STANDARDS AND DOCUMENTS

- Public Works ; 04.466/3

CONSUMPTION

- Average : 0.100-0.150 lt/m²

PACKAGING

- 5 lt plastic drums

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.

Interior -
ExteriorSurface
InspectionApplication
TemperatureApplication with
Brush-RollerSOLVENT-
FREE

APPLICATION

APPLICATION PROCEDURE

Application Temperature: +5 °C - +35 °C

Drying Time: 45-60 min

SUBSTRATE PREPARATION

- Surfaces must be cured, sound, clean, dust-free, free of mold oils and other foreign materials.
- In extremely hot summer months, the ground should be slightly moistened by sprinkling water before application.
- Defects, cracks and holes on the application surface corrected properly with repair mortars **CERMIMORTAR** or **CERMIREP R3 T** and **CERMIREP R4 T** and must be repaired.



SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information read the Product Safety Data Sheet (MSDS).

APPLICATION

- **CERMIFILM** is thoroughly mixed before application and applied to the surface with a brush or roller in a saturated manner without thinning.
- After 1 hour drying time, other applications such as waterproofing, ceramic etc. can be started. This period may be longer in cold and humid weather.
- Since it is difficult to clean, care should be taken to apply without splashing during application in order not to contaminate the surface.

RECOMMENDATIONS

- No water or other additives should be added.
- **CERMIFILM** primer applied to the surface should not be kept under the sun for a long time.
- It should not be used on water repellent surfaces and ceramic on ceramic applications.
- The surface should not be exposed to water after application.
- Do not apply in areas that are frozen or at risk of freezing.

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIASSTAR

SYNTHETIC RESIN BASED, READY TO USE PRIMER



White

- *Increasing adhesion to surfaces*
- *Prevents dusting on surfaces*
- *Ready to use*
- *Balancing the water absorbency of surfaces*
- *Solvent-free and odorless*

PRODUCT INFORMATION

WHERE TO USE

- Increasing the adhesion strength of cement-based products to be applied by balancing the water absorbency of surfaces such as plaster, concrete, plaster, screed etc.
- Especially before ceramic tile coating, leveling screed, waterproofing, paint applications;
- It is used to prevent problems such as poor adhesion, cracking, peeling etc. by absorbing water fast.

GENERAL FEATURES

Material structure: : Liquid containing synthetic resin
Appearance : Liquid
Colour : White
Density : $1.00 \pm 0.1 \text{ g/cm}^3$
 (ASTM D1475 DIN 53217 ISO 2811)

TECHNICAL CHARACTERISTICS

Moisture resistance : good
Resistance to heat aging : perfect
Flexibility : good
Acid and alkali resistance : medium

(*)These values are obtained as a result of laboratory tests and are the performance values of the finished applications after 28 days. Values may vary due to differences in the construction site environment.

STANDARD

- Public Works ; 04.466/3

CONSUMPTION

- Average : 0.100-0.150 lt/m²

PACKAGING

- In 5 lt plastic drums

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.

Interior -
ExteriorSurface
InspectionApplication
TemperatureApplication with
Brush-RollerSOLVENT-
FREE

APPLICATION

APPLICATION PROCEDURE

Application Temperature: +5 °C - +35 °C

Drying time: 45- 60 min

SUBSTRATE PREPARATION

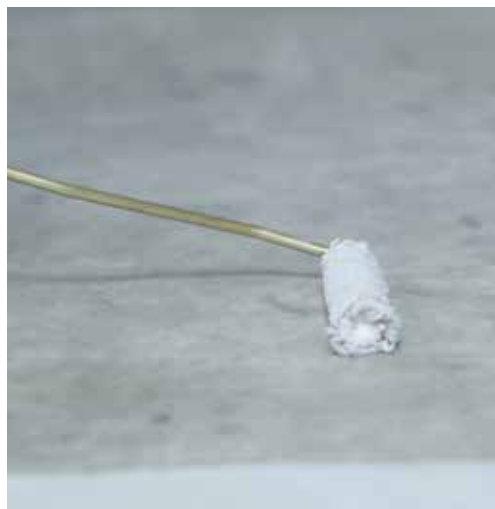
- Surfaces must be cured, sound, clean, dust-free, free of mold oils and other foreign materials.
- In extremely hot summer months, the floor should be slightly moistened by sprinkling water before application.
- Defects, cracks and holes on the application surface corrected properly with repair mortars **CERMIMORTAR** or **CERMIREP R3 T** and **CERMIREP R4 T** and must be repaired.

APPLICATION

- **CERMIASAR** is thoroughly mixed before application and applied to the surface with a brush or roller in a saturated manner without thinning.
- After 1 hour drying time, other applications such as waterproofing, ceramic etc. can be started. This period may be longer in cold and humid weather.
- Since it is difficult to clean, care should be taken to apply without splashing during application in order not to contaminate the surface.

RECOMMENDATIONS

- No water or other additives should be added.
- **CERMIASAR** primer applied to the surface should not be kept under the sun for a long time.
- Should not be used on water repellent surfaces, ceramic on ceramic applications
- The surface should not be exposed to water after application.
- Do not apply in areas that are frozen or at risk of freezing.



SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information read the Product Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFILM PLUS



**SYNTHETIC RESIN BASED, READY TO USE,
FILLED PRIMER FOR GLOSSY SURFACES**



- *Ideal for ceramic applications over old ceramic*
- *Prevents dusting on surfaces*

- *Solvent-free and odorless*
- *Ready to use*

PRODUCT INFORMATION

WHERE TO USE

- Increasing adhesion strength on smooth and non-absorbent surfaces thanks to its special filled structure,
- Before application on absorbent surfaces such as gypsum concrete, plaster, screed etc,
- It is especially used before ceramic application on old ceramics, marble glass etc.

GENERAL FEATURES

Material structure : Synthetic resin based and mineral filler
Type : Liquid
Colour : Blue
Density : $1.6 \pm 0.1 \text{ gr/cm}^3$
 (ASTM D1475 DIN 53217 ISO 2811)

TECHNICAL CHARACTERISTICS

Moisture Resistance : Good
Resistance to Heat Aging : Perfect
Flexibility Acid and Alkali Resistance : Good
Resistance : Medium

STANDARDS AND DOCUMENTS

- Public Works POS. 10.300.1171

CONSUMPTION

- Average: 0.300-0.400 kg/m²



PACKAGING

- 10 kg plastic bucket
- 5 kg plastic bucket
- 3 kg plastic bucket
- 1 kg plastic bucket

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior -
Exterior



Surface
Inspection



Application
Temperature



Application with
Brush-Roller



SOLVENT-
FREE



Odourless

APPLICATION

APPLICATION PROCEDURE

Application Temperature: +5 °C - +35 °C

Drying Time: Min. 60 min

Waiting Time After Application: 1 hour

CERMIFILM PLUS is ready to use and can be applied to the surface with a brush or roller.

SUBSTRATE PREPARATION

- Surfaces must be cured, sound, clean, dust-free, free of mold oils and other foreign materials.
- Defects, cracks and holes on the application surface corrected properly with repair mortars **CERMIMORTAR** or **CERMIREP R3 T** and **CERMIREP R4 T** and must be repaired.

APPLICATION

- **CERMIFILM PLUS** is ready to use, thoroughly mixed before application, and applied to the surface with a brush or roller in a saturated manner.
- After 1 hour drying time, other applications can be started. This period may be longer in cold and humid weather.
- Since it is difficult to clean, care should be taken not to splash during application in order not to contaminate the surface.

RECOMMENDATIONS

- No water or other additives should be added.
- **CERMIFILM PLUS** primer applied to the surface should not be kept under the sun for a long time.
- Do not apply on wet and damp surfaces.
- The surface should not be exposed to water after application.
- Do not apply in areas that are frozen or at risk of freezing.

SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information read the Product Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFILM PLUS RAPID

SYNTHETIC RESIN BASED, READY TO USE, FAST DRYING, FILLED PRIMER FOR GLOSSY SURFACES



- *Ceramic applications on old ceramic*
- *Prevents dusting on surfaces*
- *Solvent-free and odorless*
- *Fast drying in 15-30 minutes*
- *Practical packaging with roller and brush inserts*
- *Ready to use*

PRODUCT INFORMATION

WHERE TO USE

- Increasing adhesion strength before ceramic application, especially on old ceramics, marble, etc.
- Used before application on absorbent surfaces such as plaster, concrete, plaster, screed etc.

GENERAL FEATURES

| | |
|---------------------------|----------------------------|
| Material structure | : Contains synthetic resin |
| Appearance | : Dense liquid |
| Colour | : Gray |
| Density | : 1.9 gr/cm ³ |
| Solids content | : 70-80% |
| Viscosity | : 3,000-4000 mPa.s |

CONSUMPTION

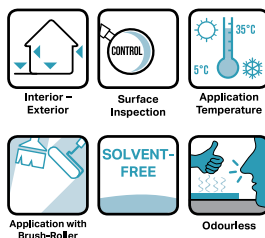
- Average : 0.200-0.300 kg/m²

PACKAGING

- 5 kg plastic bucket

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Application temperature : +5°C to +35°C

Waiting time for application before plastering applications : 15-20 minutes

Waiting time before leveling mortar applications : 30 minutes (*)

(*) Waiting time for general purpose use is between 15-30 minutes depending on the surface and environment. Waiting time varies according to surface temperature and ambient conditions.

SUBSTRATE PREPARATION

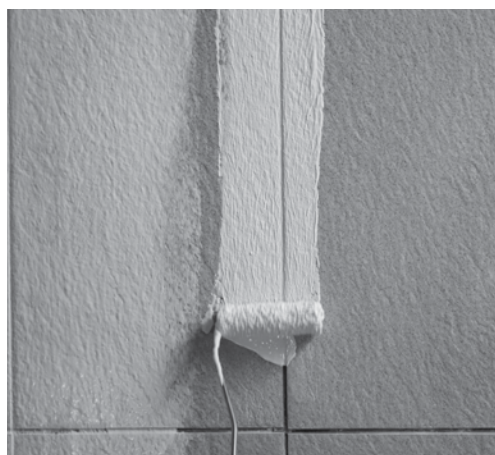
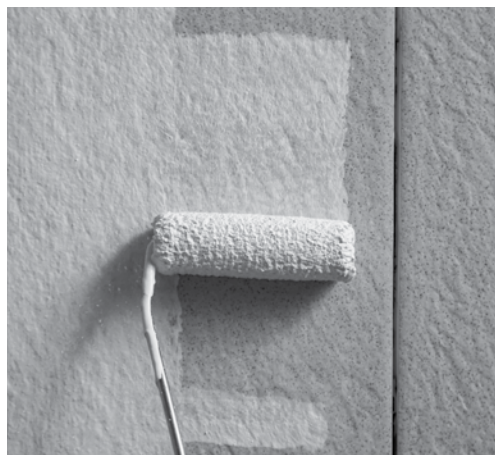
- Surfaces must be cured, sound, clean, dust-free, free of mold oils and other foreign materials.
- Defects, cracks and holes on the application surface corrected properly with repair mortars **CERMIMORTAR** or **CERMIREP R3 T** and **CERMIREP R4 T** and must be repaired.

RECOMMENDATIONS

- No water or other additives should be added.
- **CERMIFILM PLUS RAPID** primer applied to the surface should not be kept under the sun for a long time.
- Do not apply on wet and damp surfaces.
- The surface should not be exposed to water after application.
- Do not apply in areas that are frozen or at risk of freezing.

SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information read the Product Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFILM PLUS BETON

SYNTHETIC RESIN BASED, READY TO USE FILLED
EXPOSED CONCRETE PRIMER



Green

- Increasing adhesion strength by creating a rough surface
- Ready for use
- Dilutability up to 40% with water
- Solvent-free and odorless

PRODUCT INFORMATION

WHERE TO USE

- It is used before the application of cement, gypsum based coatings etc., especially on exposed concrete surfaces.

GENERAL FEATURES

| | |
|---------------------------|----------------------------------|
| Material structure | : Synthetic resin based, filled |
| Appearance | : Liquid |
| Colour | : Green |
| Density | : $2.0 \pm 0.05 \text{ gr/cm}^3$ |

CONSUMPTION

- Average : 0.125-0.250 kg/m²

PACKAGING

- 12 kg plastic bucket

STANDARDS AND DOCUMENTS

- Public Works pos. 10.300.1153 - 10.300.1173

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior -
Exterior



Surface
Inspection



Concentrated
Product



Application with
Brush-Roller



SOLVENT-
FREE



Odourless

CERMIFILM PLUS BETON

APPLICATION

APPLICATION PROCEDURE

Application Temperature : +5 °C - +35 °C (*)

Mixing Water : Max. 40% by weight

Drying Time : 100-150 min

Waiting time after application: Minimum 24 hours

(*) Environments with high humidity, for application not suitable (baths, swimming pools, etc.)

SUBSTRATE PREPARATION

- Surfaces must be cured, sound, clean, dust-free, free of mold oils and other foreign materials.
- Defects, cracks and holes on the application surface corrected properly with repair mortars **CERMIMORTAR** or **CERMIREP R3 T** and **CERMIREP R4 T** and must be repaired.

APPLICATION

- Maximum 40% dilutable with water.
- It should be mechanically mixed in its own packaging with a low speed mixer (maximum 500 rpm) until a homogeneous and lump-free mixture is obtained.
- All tools and equipment used in the application should be washed immediately with clean water.
- The cured material can only be cleaned mechanically.

RECOMMENDATIONS

- Avoid contamination of the primer during and after application.
- The ambient temperature must be suitable (+5 °C - +30 °C)
- Stir occasionally during application to ensure homogeneity of the mixture.
- Do not apply on wet, frozen and damp surfaces.

SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information read the Product Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIGUARD

**SILICONE-BASED, SOLVENT-FREE, TRANSPARENT,
READY-TO-USE, WATER-REPELLENT IMPREGNATING PRIMER**



- *Fast and high water repellency*
- *High water vapor permeability and breathability*
- *High alkali resistance*
- *Applicable to painted surfaces*
- *Resistant to outdoor weather conditions such as UV, frost, rain*
- *Transparent structure that does not distort the appearance of the surface*

PRODUCT INFORMATION

WHERE TO USE

- Impregnation of porous building materials such as decorative brick, clinker, cement-based particleboard, paint
- Protection of surfaces against wear and tear caused by water, salt, chlorine and alkalis

GENERAL FEATURES

| | |
|------------------|----------------------------|
| Structure | : Silane/Siloxane emulsion |
| Type | : Liquid |
| Color | : Transparent |
| Density | : 0.98 g/cm ³ |

TECHNICAL CHARACTERISTICS

| | |
|-------------------------------|-------------------|
| Temperature resistance | : -30 °C - +70 °C |
| Moisture resistance | : excellent |

(*) These values are obtained as a result of laboratory tests and are the performance values of the finished applications after 28 days. Values may vary due to differences in the construction site environment.

CONSUMPTION

- Average: 0.200-0.400 lt/m²

PACKAGING

- 5 lt plastic drum packaging

STORAGE

- It should be stored in moisture-free, dry and protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Exterior Wall



Surface Inspection



Application Temperature



Application with Brush-Roller

APPLICATION

APPLICATION PROCEDURE

Mixture ratio: Ready-to-use mixture

Application temperature: +5 °C - +30 °C

Drying time: minimum 30 minutes

SUBSTRATE PREPARATION

- Application surfaces should be free of dust, dirt and oil, smooth and solid, and should not be too dry or sweating.
- Before starting the application on surfaces exposed to direct sunlight and overheated surfaces, the surface temperature should be reduced by moistening the surface with water sprinkling method.

APPLICATION

- The mixture can be applied to the surface with a stiff brush or roller.
- It is recommended to apply with a stiff brush. It should be applied in successive passes, without waiting for the passes to dry, saturating the surface.
- It is recommended to apply 2 coats to ensure that the material thoroughly covers the entire surface.
- Wet-on-wet application is applied without waiting for the coats to dry.



RECOMMENDATIONS

- Do not apply on unset plastered and concrete surfaces (horizontal and vertical) before the minimum 6-week curing period.
- Tools should be cleaned with kerosene and turpentine after application.
- Not suitable for use in areas under permanent water effect such as pools.

SAFETY INSTRUCTIONS

- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information, please read the Product Safety Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPRIME PU

POLYURETHANE BASED, SINGLE COMPONENT, LOW VISCOSITY, PRIMER AND IMPREGNATION MATERIAL



Transparent



- *Excellent adhesion performance*
- *Possibility of application on all kinds of surfaces*

- *Free of toxic substances after curing*
- *High penetration properties*
- *Easy application*

PRODUCT INFORMATION

WHERE TO USE

• It is used before polyurethane coatings on various surfaces such as concrete, metal, PVC, wood, bitumen etc.

GENERAL FEATURES

Material structure : Polyurethane-based, low viscosity
Appearance : Liquid
Density : $1,00 \pm 0,02 \text{ gr/cm}^3$
 (ASTM D1475 DIN 53217 / ISO 2811)
Colour : Transparent

TECHNICAL CHARACTERISTICS

| (23 °C, %55 R.H.) | UNIT | METHOD | FEATURE |
|---------------------------|------|-----------------------|---------|
| Viscosity (Brookfield) | cP | ASTIM D2196-86 | 135±25 |
| Curing Time | hour | (23 °C, %55 RH, hour) | 4-6 |
| Top Coat Application | hour | (23 °C, %55 RH, hour) | 12-24 |



STANDARDS AND DOCUMENTS

- Tested according to TS EN standards.
- Public Works pos no: 10.300.1515

CONSUMPTION

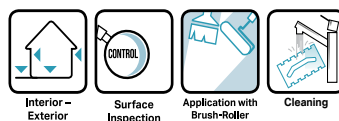
- Consumption for a one coat 0,200-0,250 kg/m².

PACKAGING

- 15 kg metal bucket
- 4 kg metal bucket

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



CERMIPRIME PU**APPLICATION****APPLICATION PROCEDURE**

- **CERMIPRIME PU** is applied by roller, brush and airless spray.
- The product, which is made ready for application, is applied in such a way that the surface is saturated and the pores are closed. The minimum new coat application time is 2-3 hours (23 °C) and maximum 24 hours. Before new coat applications exceeding 24 hours, the primer surface must be sanded. It is very important to apply the second coat within the new coat application time stated above.
- Cleaning of tools: Can be done with cellulosic or polyurethane thinner.

SUBSTRATE PREPARATION

- Surfaces must be cured, sound, clean, dust-free, free of mold oils and other foreign materials.
- Existing cracks on the surface should be repaired before application.
- Relative humidity of air up to 85%, ambient temperature should be between +5 °C to +35 °C.

APPLICATION

- Mixing of the material should be done with a special mixing device and tip not exceeding 300-400 rpm, and mixing should not be done with a high speed drill.
- In cold weather, packages should be kept at +15 °C for at least 24 hours before application.

**RECOMMENDATIONS**

- Work in ventilated or open areas.
- Do not approach with flame and do not smoke in the application.
- Wear gloves, goggles and protective clothing.
- In case of contact with skin, wash with soap and water.
- Don't swallow.
- For professional use, keep out of the reach of children.

SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information read the Product Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPRIME PU PLUS

SILANE BASED, SINGLE COMPONENT TRANSPARENT PRIMER AND IMPREGNATION MATERIAL



- Can be applied on damp surfaces,
- High adhesion performance even on glassy, non-porous surfaces
- Easy to use on any surface,
- High penetration properties
- Free of toxic substances after curing

PRODUCT INFORMATION

WHERE TO USE

- Especially before applications on glassy, non-porous, nonabsorbent surfaces
- Before polyurethane coatings to be made on many different surfaces such as concrete, metal, PVC, wood, bitumen etc.

GENERAL FEATURES

Material structure: STP based, low viscosity
Appearance : Liquid
Density : $1.00 \pm 0.02 \text{ gr/cm}^3$
 (ASTM D1475 DIN 53217 / ISO 2811)
Colour : Transparent

TECHNICAL CHARACTERISTICS

| (23 °C, %55 R.H.) _m | UNIT | METHOD | FEATURE |
|--------------------------------|------|-----------------------|---------|
| Viscosity (Brookfield) | cP | ASTM D2196-86 | 135±25 |
| Curing Time | hour | (23 °C, %55 RH, hour) | 4-6 |
| Top Coat Application | min | (23 °C, %55 RH, hour) | 60 |

CONSUMPTION

- Average : 0.050-0.060 kg/m²

PACKAGING

- 2.5 kg metal box

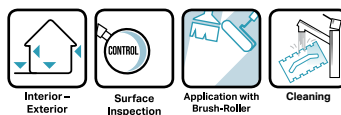


STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.

STANDARDS AND DOCUMENTS

- Tested according to TS EN standards.
- Public Works pos no: 10.300.1515



CERMIPRIME PU PLUS**APPLICATION****APPLICATION PROCEDURE**

- **CERMIPRIME PU** is applied by roller, brush and airless spray.
- The product, which is made ready for application, is applied in such a way that the surface is saturated and the pores are closed. The minimum new coat application time is 2-3 hours (23 °C) and maximum 24 hours. Before new coat applications exceeding 24 hours, the primer surface must be sanded. It is very important to apply the second coat within the new coat application time stated above.
- **Cleaning of tools:** Can be done with cellulosic or polyurethane thinner.

SUBSTRATE PREPARATION

- Surfaces must be cured, sound, clean, dust-free, free of mold oils and other foreign materials.
- Existing cracks on the surface should be repaired before application.
- Relative humidity of air up to 85%, ambient temperature should be between +5 °C to +35 °C.
- The surface should not be exposed to rain, moisture and water 24 hours before, during and up to 24 hours after application.

APPLICATION

- Mixing of the material should be done with a special mixing device and tip not exceeding 300-400 rpm, and mixing should not be done with a high speed drill.
- In cold weather, packages should be kept at +15 °C for at least 24 hours before application.

**RECOMMENDATIONS**

- Work in ventilated or open areas.
- Do not approach with flame and do not smoke in the application.
- Wear gloves, goggles and protective clothing.
- In case of contact with skin, wash with soap and water.
- Don't swallow.
- For professional use, keep out of the reach of children.

SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information read the Product Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIPRIME EPR 2C

EPOXY RESIN BASED, TWO COMPONENT,
TRANSPARENT PRIMER



- High adhesion strength
- Low viscosity
- High penetration

- Physical and chemical resistant
- Solvent free



PRODUCT INFORMATION

WHERE TO USE

- Before epoxy and polyurethane floor coverings,
- On cement based mineral surfaces,
- To fill the pores of the concrete surface,
- Concrete reinforced floors repair and used in strengthening applications.

GENERAL FEATURES

| | |
|---------------------------------|----------------------------------|
| Material Structure | : Contains epoxy resin. |
| Appearance | : Transparent |
| Density | : $1.08 \pm 0.02 \text{ g/cm}^3$ |
| Viscosity (25 °C) | : 600-1200 mPas |
| Solids Content by Weight | : ~100 % |
| Solids Content by Volume | : ~100 % |

TECHNICAL CHARACTERISTICS

| | |
|----------------------------------------------------------|------------------------------------------------------------------|
| Tensile bond strength | : $>1.5 \text{ N/mm}^2$ (adhesion to concrete) (EN 1504-2) |
| Abrasion resistance | : $< 3000 \text{ mg}$ (EN 1504 - 2 / EN ISO 5470-1) |
| Capillary water absorption and water permeability | : $< 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$ |
| Resistance to impact | : Class I (EN ISO 6272-1) |
| Teber wear | : 100 (EN 1504-2) |

(*) These values are obtained as a result of laboratory tests and are the performance values of the finished applications 7 days later. Values may vary due to differences in the construction site environment.

STANDARDS AND DOCUMENTS

- Meets the requirements of -EN 1504-2.



CONSUMPTION

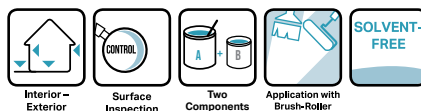
- Approximately $0.150\text{-}0.300 \text{ kg/m}^2$ depending on concrete quality, surface absorbency and roughness. Depending on the system solutions, primer usage and consumption may vary.

PACKAGING

- 14.8 kg metal bucket (10 kg + 4.8 kg)

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Pot life: 45 ±5 min.

Application temperature: +5 °C to +30 °C

Waiting time between coats: 10-24 Hours

Pedestrian traffic: min 24 hours

Final curing: 7 days

SUBSTRATE PREPARATION

- Surfaces must be cured, sound, clean, dust-free, free of mold oils and other foreign materials.
- Surface repairs: Joints, hairline cracks should be widened, pits should be cleaned and filled with epoxy mortar.

APPLICATION

- Component A, in its own packaging, should be homogenized with a low speed drill for about 1 minute and then component B should be added and mixed with a low speed drill for about 3 minutes.
- Used when the moisture content of the concrete is maximum 5% when measured with the CM Moisture Meter (carbide method).
- The concrete surface must be clean, sound and have sufficient compressive strength (at least 25N/mm²) and tensile strength (pull off) must be at least 1,5 N/mm².
- On absorbent surfaces, 2nd coat primer should be applied after 6 hours.



RECOMMENDATIONS

- The product should be used within the life of the container after mixing.
- Products that have reached the end of their container life during application should never be used.
- No foreign material such as lime, cement, gypsum should be added to the prepared mortar.
- Do not apply on unsound surfaces.
- During and after application, the surface should be protected from air currents and contact with water should be prevented.
- Within 24 hours, it should not be applied on surfaces that are in danger of frost, frozen or thawing.
- Do not apply on plastered and concrete surfaces that have not taken the premium before the curing period is completed.
- Application should not be made on hot surfaces exposed to extreme wind or direct sunlight, if application in these environments is mandatory, the environment and surface should be prepared for application before starting.

SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information read the Product Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMILATEX

SYNTHETIC POLYMER BASED PERFORMANCE ENHANCING LIQUID ADDITIVE



White



- Improves adhesion strength
- Reduces water permeability

- Provides high abrasion and impact resistance
- Adds elasticity

PRODUCT INFORMATION

WHERE TO USE

• Increasing the performance values of cement based mortars, plasters and screeds such as flexibility, abrasion and impact resistance, adhesion strength, water impermeability, crack resistance etc.

GENERAL FEATURES

Material structure : Synthetic polymer doped liquid
Appearance : Liquid
Colour : White
Ph : 8
Density : $1.05 \pm 0.1 \text{ gr/cm}^3$
 (ASTM D1475 DIN 53217 ISO 2811)

TECHNICAL CHARACTERISTICS

Moisture Resistance : Excellent
Resistance to Heat Aging : Excellent
Flexibility : Excellent
Alkali Resistance : Excellent

CONSUMPTION

• It varies according to the amount of mixing water and additive ratio of the mortar to be used in it. Please refer to the application section to calculate the approximate consumption amount.

PACKAGING

- 5 lt plastic drums
- 20 lt plastic drums



STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior – Exterior



Application Temperature



Surface Inspection

APPLICATION

APPLICATION PROCEDURE

- **Application temperature:** +5 °C to +35 °C
- **Adhesive, joint filling mortar and plaster application**
Mixing water; 2 parts
Latex ; 1 part
- **For example:** For 25 kg CERMIPPLUS; 2,5 lt Latex and 5 lt water are mixed.
- **In the production of lining materials;**
Primer ; 1 scale
Latex ; 1 scale

RECOMMENDATIONS

- It is not used as an additive material in self-leveling screeds.
- The expired and crusted product in the container should not be used.
- When used in cement based adhesive in hot and dry environments, early film formation may be observed on the combed surface. In this case, the adhesive on the film-forming surface should be cleaned and combed again.
- When used in applications such as pools, wet areas, etc., the minimum curing time of the mortar it is added into should be waited.
- When added to ceramic adhesive mortar, it delays the set time of the adhesive, especially at low temperatures. Consult technical service for low temperature applications.
- When used together with plaster mortar, care should be taken during application as it will increase the adhesion of the mortar.



SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information read the Product Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIMIX

WATER IMPERMEABILITY ADMIXTURE FOR CEMENT BASED MORTAR AND CONCRETE



Brown



- *Increases water impermeability in mortar and concrete*
- *Increases the strength of the mortar*
- *Not affected by lime*
- *Protects the reinforcement in the concrete structure against corrosion*
- *Ready to use*
- *Does not cause any change in setting and curing times*

PRODUCT INFORMATION

WHERE TO USE

- Increasing the water impermeability of concrete, mortar, plaster and screeds,
- Especially in concrete of water tanks, swimming pools, foundations and curtains etc,
- It is used to close pores and cracks at the capillary level.

GENERAL FEATURES

| | |
|-------------------|----------------------------------|
| Density | : $0,95 \pm 0,1 \text{ gr/cm}^3$ |
| Appearance | : Liquid |
| Content | : Sodium lignosulfonate mixture |
| pH | : 10 ± 1 |
| Color | : Brown |

CONSUMPTION

- In addition to the mortar mixture,
 - 1 Units Cermimix: 10 Units Water (*)
- (*) If the sand used is moist, this ratio should be 1:8 or 1:6.

PACKAGING

- 5 lt plastic drums
- 20 lt plastic drums

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Application Temperature



Surface Inspection

APPLICATION

APPLICATION PROCEDURE

- Shake **CERMIMIX** well before use.
- The product is used by adding to clean water.
- Add the appropriate amount of **CERMIMIX** to the consistency of the mortar. Increases the water impermeability performance of cement based mortars and concretes when used as an admixture.
- Trial mixtures should be made to determine dosage rates and water requirements.

RECOMMENDATIONS

- Application should not be made on hot surfaces exposed to excessive wind or direct sunlight, if it is necessary to apply in these environments, the environment and surface should be prepared for application before starting.
- Do not apply in rainy weather, the application surface should be protected from rain for 24 hours.
- The expired and crusted product in the container should not be used.
- It is important to have homogeneous distribution in the mortar.
- For full performance, the mortar or concrete in which it is added should be allowed to cure.
- Please contact our technical service for other applications.

SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information read the Product Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMICURE

ACRYLIC RESIN BASED, READY TO USE LIQUID CURING MATERIAL THAT PREVENTS WATER LOSS OF FRESH CONCRETE



White

- *Easy to apply*
- *Reducing the formation of plastic shrinkage / cracks*
- *Which makes the cement better hydrated*
- *It provides curing with its own water by minimizing water loss*
- *Adherence enhancer*

PRODUCT INFORMATION

WHERE TO USE

- Penetrating into the surface of freshly poured concrete, preventing the rapid evaporation of concrete mix water during the setting process, thus supporting the achievement of concrete design strength,
- To minimize shrinkage and shrinkage cracks by helping to complete cement hydration under ideal conditions,
- Ideal liquid curing material especially for large and outdoor concrete applications.

GENERAL FEATURES

| | |
|-------------------|--------------------------|
| Structure | : Acrylic resin based |
| Appearance | : Liquid |
| Color | : White |
| Density | : 1.03 g/cm ³ |

TECHNICAL CHARACTERISTICS

VOC value: VOC free

STANDARDS AND DOCUMENTS

- Conforms to ASTM C309-11 Type2.
- Public Works POS. No: 04.613/1F



CONSUMPTION

- Average 0,200-0,250 kg/m²

PACKAGING

- In 30 kg plastic drums

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Drying time: 90 min (200 g per m²), 115 min (250 g per m²)

SUBSTRATE PREPARATION

• It is applied to the fresh concrete surface after the surface loses water and becomes dull.

APPLICATION

• The ready-to-use product is sprayed with a mechanical sprayer. In modern concrete pavers, this process is carried out by means of an automatic system connected to the paver.

RECOMMENDATIONS

- **CERMICURE** must be mixed before use.
- After application, the concrete surface with **CERMICURE** should be protected from contact with water until it dries.
- It should not be applied in a way to cause ponding on the surface.
- After application, the sprayer should be washed with water to avoid clogging.
- In case of application other than cement and gypsum based plasters on surfaces where acrylic resin based curing material has been applied, the concrete surface should be roughened by slimming and the curing material should be removed from the surface.

SAFETY INSTRUCTIONS

- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information, please read the Product Safety Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMISEP KA

MINERAL OIL BASED MOLD RELEASE AGENT



White



- *Ready to use*
- *Allows the mold to be separated from the concrete more easily*
- *Easy to apply*
- *Extending the service life of the mold*
- *Ensuring smooth surface concrete*

PRODUCT INFORMATION

WHERE TO USE

• It is used in cases where it is desired to increase mold efficiency in plastic, ply-wood molds and to accelerate mold workmanship.

GENERAL FEATURES

- Structure** : Fluidized liquid for wood type molds, consisting of a mixture of high quality lubricants, emulsifiers and special additives
- Color** : White
- Density** : $0,96 \pm 0,5 \text{ g/cm}^3$



STANDARDS AND DOCUMENTS

- Public Works pos. no. 04.116/1

CONSUMPTION

- Average: 0.05-0.10 kg/m²

PACKAGING

- 20 kg plastic drum

STORAGE

- It should be stored in moisture-free, dry and protected against external weather conditions.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Application Temperature



Application with Brush-Roller



Surface Inspection

CERMISEP KA**APPLICATION****APPLICATION PROCEDURE**

Application temperature : +5°C, +35°C

SUBSTRATE PREPARATION

• Before using **CERMISEP KA**, the molds must be dry, clean and free of concrete and rust residues.

APPLICATION

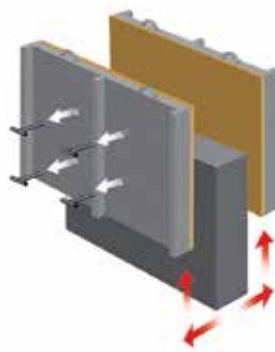
- **CERMISEP KA** is ready for use and must be mixed before use.
- It can be applied to the clean mold surface with a roller, brush or sprayer.
- For maximum performance, the product should be applied homogeneously and thinly.
- Very absorbent and old molds may require a 2nd coat.

RECOMMENDATIONS

- Water should not be added before and after use.

SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed information please read the Material Safety Data Sheet (MSDS).



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMINET

ACIDIC, LIQUID CONCENTRATED CERAMIC CLEANER



Transparent

- *Easy implementation*
- *Concentrate*
- *Acidic*

PRODUCT INFORMATION

WHERE TO USE

- For easy cleaning of cement and lime based mortar residues left on the surface after applications such as adhesive, joint filler, plaster etc.
- Removal of wax residues on ceramic coatings,
- Ideal for use on acid resistant ceramic tiles, granite tiles, etc.

GENERAL FEATURES

| | |
|-----------------------|---------------------------|
| Structure | : Liquid |
| Color | : Transparent |
| Ph | : <0,3 |
| Density | : 1.03 gr/cm ³ |
| Freezing point | : 0 °C |



CONSUMPTION

- 16 -20 m² with 1 lt (without dilution)

PACKAGING

- 1 lt plastic drums

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.
- The product must not be exposed to sun or frost during storage. Store at temperatures between +0 °C - +40 °C.



Interior -
Exterior



Application
Temperature



Concentrated
Product



Easy Cleaning

APPLICATION

APPLICATION PROCEDURE

Application temperature: +0 °C - +40 °C

SUBSTRATE PREPARATION

- Before cleaning with **CERMINET**, materials that may be affected by acid should be removed or protected (e.g. marble, natural stone, metal surfaces such as aluminum, inox steel or iron).
- The surface must be solid.
- The surface to be cleaned must be fully moistened with water before application.



APPLICATION

- **CERMINET** is a concentrated material. It is used by diluting with water according to the severity of mortar residue. It is generally recommended to be diluted with water at a ratio of 1:5. However, for dense residues, the dilution ratio can be reduced to 1:1, provided that its effect is tested in the material, or it can be used directly without dilution.
- Apply **CERMINET** to the surface with a brush or sponge. Wait maximum 5 minutes for the material to take effect. Then, all visible dirt layers are removed with a sponge or brush.
- After the cleaning is finished, the liquid residue is removed from the surface with a sponge or industrial vacuum cleaner. Afterwards, the surface is rinsed several times with water and finally dried with a clean cloth.
- **CERMINET** is also suitable for use with industrial cleaning machines. **CERMINET** should be applied to 3-4 m2 of the area to be cleaned at one time, wait 2-3 minutes and then proceed with the cleaning process.

RECOMMENDATIONS

- Avoid application in very humid or very hot weather.
- Before cleaning with **CERMINET**, a preliminary test should be carried out. Check whether the material to be cleaned is acid-resistant, cleanable and corrosive. Direct contact causes discoloration on metal surfaces (materials such as aluminum, inox steel or iron) or dark colored surfaces.
- The vapors of **CERMINET** have an abrasive effect. For this reason, it may cause corrosion and rusting on chromeplated and metal-plated surfaces. During application, metal and metal-plated materials in the environment should be protected from the vapor effect.
- The application environment must be ventilated and Vapors of **CERMINET** should be prevented from accumulating in the environment.
- Due to the abrasive effect of the product, prolonged contact with grouting surfaces should be avoided.

SAFETY INSTRUCTIONS

- Should not be inhaled because it is acidic and contact with skin and eyes should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed safety information, please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIX JOINT CLEANER

ACIDIC, LIQUID JOINT FILLER CLEANER



Transparent



- *Easy implementation*
- *Fast and effective cleaning*

- *Acidic*
- *Special formula that does not corrode joint fillers*

PRODUCT INFORMATION

WHERE TO USE

- For easy cleaning of stains and dirt on ceramic tiles, porcelain tiles and joint fillers,
- Bathrooms, kitchens and public areas,
- On coating materials such as acid resistant ceramic tiles, porcelain tiles, etc.

GENERAL FEATURES

| | |
|-----------------------|--------------------------|
| Structure | : Liquid |
| Color | : Transparent |
| Ph | : 1.5 |
| Density | : 0.9 gr/cm ³ |
| Freezing point | : -6 °C |



CONSUMPTION

- Approximately 50 linear meter joint line cleaning with -0.5 lt

PACKAGING

- 0.5 lt plastic spray packaging

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions. Opened packages should be kept tightly closed.
- The product must not be exposed to sun or frost during storage. Store at temperatures between +0 °C - +40 °C.



Interior –
Exterior



Application
Temperature



Easy Cleaning

APPLICATION

APPLICATION PROCEDURE

Application temperature: +0 °C - +40 °C

APPLICATION

- It is recommended to apply consecutively in small areas of 3 or 4 tiles.
- Applied directly to the joints.
- Allow a maximum of 3 minutes for surface penetration.
- Remove dirt with a sponge with plenty of water.

RECOMMENDATIONS

- If the dirt does not come off, rub the dirty surface with a brush, sponge or similar material to remove the dirt.
- After removing dirt, the surface should be thoroughly rinsed.



SAFETY INSTRUCTIONS

- Should not be inhaled because it is acidic and contact with skin and eyes should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- For more detailed safety information, please read the Material Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFINE

CEMENT BASED, THIN FILLED, SATIN LOOKING PLASTER AND SURFACE SMOOTHING PUTTY



White



Grey



- *Thin filled, satin looking plaster*
- *High adhesion performance*
- *Ideal for surface preparation before painting*

- *Non-shrinking and non-cracking*
- *Resistant to outdoor conditions*

PRODUCT INFORMATION

WHERE TO USE

- On the interior and exterior of buildings
- Creating a smooth surface before applying paint, decorative plaster, etc.
- Filling of hairline cracks

GENERAL FEATURES

| | |
|---------------------------|--------------------------------------------------------|
| Chemical Structure | : High quality cement, special additives and fillings. |
| Type | : Powder |
| Dry Density | : $1,00 \pm 0,1 \text{ gr/cm}^3$ |
| Mortar Density | : $1,70 \pm 0,1 \text{ gr/cm}^3$ |
| Grain Size | : $\leq 400 \mu\text{m}$ |
| Colour | : White, Grey |

TECHNICAL CHARACTERISTICS

| | |
|----------------------------------|----------------------------------------------------------|
| Compressive Strength | : $> 10 \text{ N/mm}^2$ (28 days later) (TS EN 12190) |
| Tensile Adhesion Strength | : $> 0,8 \text{ N/mm}^2$ (28 days later) |

28 days (at 23 °C and RH 60%)

(*)These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- EN 1504-3
- CE
- Public works pos no 1003002071

PACKAGING

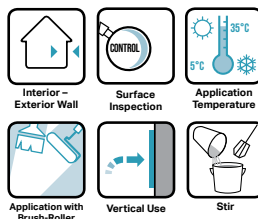
- 20 kg kraft bags (60 pieces on a pallet / 1200 kg)

CONSUMPTION

- Approximately 1-1,2 kg/m² (1 mm thickness)

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- It should be stored in a moisture-free and dry warehouse which is -well-protected against atmospheric conditions weather conditions.
- Shelf life is 1 year under proper storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

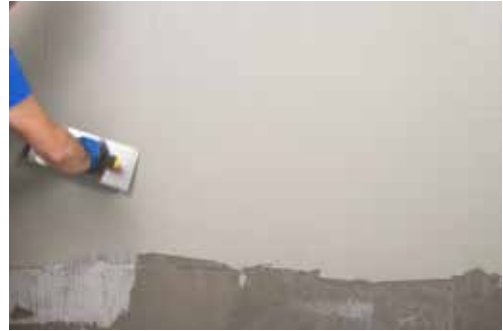
Mixing ratio: 7.6 - 8.4 lt water for 20 kg bag
Application thickness : 0-3 mm
Application temperature : +5 °C ; +35 °C
Pot Life: 30 minutes (23 °C)

SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMIFILM** prior to application.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMIFILM PLUS** prior to application
- The surfaces exposed to direct sunlight and dry substrates must be cooled by damping.

APPLICATION

- 20 kg bag of material should be slowly poured into a container containing 7.6 - 8.4 liters of clean water (38-42%) and mixed with a low-speed (400 rpm) hand mixer for 3-4 minutes until it reaches a homogeneous consistency.
- The mortar should be rested for 2-3 minutes and then mixed again before application.
- Spread **CERMIFINE** evenly on the surface by using a steel trowel with a peeling move.
- 20-30 minutes after application (when the plaster completes its initial set and the surface gets dry), the plaster surface can be smoothened by using a plain steel trowel or with a damp sponge.
- While applying during windy, sunny, hot and dry weathers, damping the smoothened surface once in 2-3 hours will prevent any cracks caused by sudden setting.



RECOMMENDATIONS

- Do not apply it on frost hazardous or overheated surfaces, under direct sunlight and in windy weather.
- If petrification is detected after opening the bags, the product should not be used.
- The product should be used within the life of the container after mixing.
- No foreign materials such as lime, cement or gypsum should be added into the mortar.
- Amount of water indicated on the bag should be observed.
- Do not apply on unsound surfaces.
- Protect the applied surfaces against direct sunlight, rain and frost for at least 24 hours.
- Do not apply on new plastered or concrete surfaces before the curing time is completed.

SAFETY INSRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)



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CERMIMORTAR 3-20

CEMENT BASED, COARSE GRANIED, SURFACE SMOOTHING AND REPAIR MORTAR



Grey



- *Easy application*
- *High adhesion performance*
- *Non-shrinking and non-cracking*

- *Resistant to outdoor conditions*
- *Resistant to water and humidity*

PRODUCT INFORMATION

WHERE TO USE

- In the repair of spilled, cracked, broken surfaces.
- For plastering blocky surfaces such as bricks on the interior and exterior of buildings.
- To provide a smooth surface before paint, ceramic tile, waterproofing, etc. applications.
- Possibility of application between 3-20 mm

GENERAL FEATURES

| | |
|-----------------------|-------------------------------------------------------|
| Structure | : High-quality cement, special additives and fillings |
| Type | : Powder |
| Color | : Grey |
| Dry Density | : $1.60 \pm 0.1 \text{ gr/cm}^3$ |
| Mortar Density | : $1.80 \pm 0.1 \text{ gr/cm}^3$ |
| Grain Size | : $\leq 800 \mu\text{m}$ |

TECHNICAL CHARACTERISTICS

| | |
|----------------------------------|---------------------------------|
| Compressive Strength | : $> 15 \text{ MPa}$ |
| Tensile Adhesion Strength | : $> 0.8 \text{ MPa (EN 1542)}$ |

(*)These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-3 standard.
- CE

PACKAGING

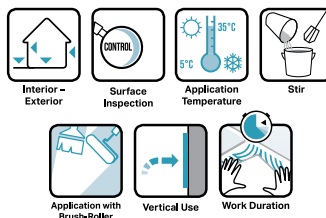
- 25 kg kraft bags (48 pieces on a pallet / 1200 kg)

CONSUMPTION

- Average 1.8 kg/m^2 (for 1mm thickness)

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- It should be stored in a moisture-free and dry warehouse which is -well-protected against atmospheric conditions weather conditions.
- Shelf life is 1 year under proper storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Mixing ratio: 4,5-5,5 lt water for 25 kg bag

Application thickness : 3-20 mm

Application temperature : +5 °C ; +35 °C

Pot Life: 30 minutes (23 °C)

SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.
- Surfaces with high absorbency should be primed with **CERMFILM** prior to application.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **CERMFILM PLUS** prior to application.
- The surfaces exposed to direct sunlight and dry substrates must be cooled by damping.

APPLICATION

- 25 kg bag of material should be slowly poured into a container containing 4,5-5,5 liters of clean water (18-22%) and mixed with a low-speed (400 rpm) hand mixer for 3-4 minutes until it reaches a homogeneous consistency.
- The mortar should be rested for 2-3 minutes and then mixed again before application.
- Spread **CERMIMORTAR 3-20** evenly on the surface by using a steel trowel with a peeling move.
- 20-30 minutes after application (when the plaster completes its initial set and the surface gets dry), the plaster surface can be smoothened by using a plain steel trowel or with a damp sponge.
- While applying during windy, sunny, hot and dry weathers, damping the smoothened surface once in 2-3 hours will prevent any cracks caused by sudden setting.



RECOMMENDATIONS

- Do not apply it on frost hazardous or overheated surfaces, under direct sunlight and in windy weather.
- If petrification is detected after opening the bags, the product should not be used.
- The product should be used within the life of the container after mixing.
- No foreign materials such as lime, cement or gypsum should be added into the mortar.
- Amount of water indicated on the bag should be observed.
- Do not apply on unsound surfaces.
- Protect the applied surfaces against direct sunlight, rain and frost for at least 24 hours.
- Do not apply on new plastered or concrete surfaces before the curing time is completed.

SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIREP R3 T

CEMENT BASED, R3 CLASS, FINE GRAINED, POLYMER REINFORCED, STRUCTURAL REPAIR MORTAR



Grey



- *Vertical and overhead with its thixotropic structure ideal for applications*
- *Water and frost resistant*
- *Non-shrinking and cracking*
- *High mechanical strength and adhesion strength*
- *Ease of application with its non-corrosive structure*
- *Creating a smooth surface*

PRODUCT INFORMATION

WHERE TO USE

- Repair and leveling of concrete structures
- Column, girder repair, filling the core and rod holes,
- In the repair of superficial concrete segregations
- Possibility of application between 3-7 mm in one coat

GENERAL FEATURES

| | |
|----------------------|--------------------------------------------------|
| Structure | : Cement-based grey powder with polymer additive |
| Dry Mortar | : $1.80 \pm 0.1 \text{ gr/cm}^3$ |
| Wet Mortar | : $2.0 \pm 0.10 \text{ g/cm}^3$ |
| Colour | : Grey |
| Granular Size | : $\leq 600 \mu\text{m}$ |

TECHNICAL CHARACTERISTICS

| | |
|----------------------------------|--------------------------------------------------------------|
| Compressive Strength | : 20-40 MPa (EN 12190) |
| Flexural Strength | : 5-10 MPa (EN 196-1) |
| Tensile Adhesion Strength | : 1,5-2,5 MPa (EN 1542) |
| Fire Resistance | : Class A1 EN 13501-1 |
| Capillary Absorption | : $\sim 0.05 \text{ kg.m}^{-2}.\text{h}^{0.5}$ (EN 13057) |

(*) These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- EN 1504-3 R3
- CE

CONSUMPTION

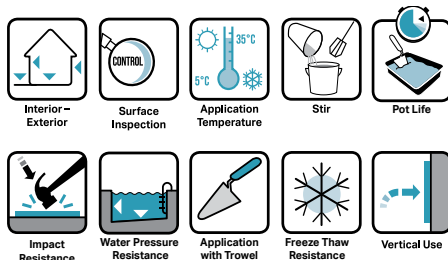
- Approximately $2.0\text{-}2.2 \text{ kg/m}^2$ (1 mm thickness)

PACKAGING

- 20 kg kraft bags (60 pieces on a pallet / 1200 kg)

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- It should be stored in a moisture-free and dry warehouse which is well-protected against atmospheric conditions weather conditions.
- Shelf life is 1 year under proper storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

| | |
|--------------------------------|------------------|
| Application Thickness | : 3-7 mm |
| Application temperature | : +5 °C ; +35 °C |
| Pot Life | : 30 minutes |
| Putting into use | : Min. 1 day |
| Complete curing | : 28 days |
| Wait time between coats | : 2-3 hours |

SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.
- The surface should not be too dry or completely wet before application. Before applying on surfaces exposed to direct sunlight or overheated, the surface temperature should be reduced by moistening with water sprinkling method.
- It is recommended to use **CERMIFILM** primer on absorbent surfaces.
- In repairs to be made on old concrete and reinforcement, **CERMIREP PASIV T** should be used as a primer to increase adhesion, and CermiRep repair mortar should be applied before it completely dries.

APPLICATION

- 20 kg bag of material should be slowly poured into a container containing 4.2 - 4.6 liters of clean water (21-23%) and mixed with a low-speed (400 rpm) hand mixer for 3-4 minutes until it reaches a homogeneous consistency.
- The mortar should be rested for 2-3 minutes and then mixed again before application.
- **CERMIREP R3 T** can be applied to all surfaces to be repaired using a steel trowel.
- If 2 coats are to be applied, wait 2-3 hours between coats.
- The times given in the application information and steps may be shortened or extended in different environmental conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

- Do not apply it on frost hazardous or overheated surfaces, under direct sunlight and in windy weather.
- If petrification is detected after opening the bags, the product should not be used.
- The product should be used within the life of the container after mixing.
- No foreign materials such as lime, cement or gypsum should be added into the mortar.
- Amount of water indicated on the bag should be observed.
- The applied surface should be moistened for 1-2 days, direct sunlight, wind, frost, etc. effects should be protected.
- Protect the applied surfaces against direct sunlight, rain and frost for at least 24 hours.
- Do not apply on new plastered or concrete surfaces before the curing time is completed.

SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIREP R4 T

**CEMENT BASED, R4 CLASS, POLYMER REINFORCED,
STRUCTURAL REPAIR MORTAR WITH THICK FILLING**



Grey



- *Vertical with its thixotropic structure and ideal for overhead applications*
- *Water and frost resistant*
- *Non-shrinkable and none-cracking*

- *High mechanical strength and adhesion strength, fiber reinforced*
- *Ease of application with its non-corrosive structure*

PRODUCT INFORMATION

WHERE TO USE

- Repair and leveling of concrete structures
- For repairing of columns and beams and filling the core and rod holes,
- In the repair of superficial concrete segregations
- Suitable for use between 5-30 mm in a single coat

GENERAL FEATURES

- Structure** : Powder product containing high quality cement, filler, performance polymer and fiber additives.
- Colour** : Grey
- Dry Mortar** : $1.75 \pm 0.10 \text{ g/cm}^3$
- Wet Mortar** : $2.00 \pm 0.10 \text{ g/cm}^3$
- Granular Size** : $\leq 2000 \mu\text{m}$

TECHNICAL CHARACTERISTICS

- Compressive Strength** : 1 day 10-25 MPa (EN 196-1)
28 day; $\geq 45 \text{ MPa}$
- Flexural Strength** : $\geq 10 \text{ MPa}$ (EN 196-1)
- Tensile Adhesion Strength** : $\geq 2.0 \text{ MPa}$ (EN 1542) (at 23 °C and RH60%)
- Fire Resistance** : Classification without A1 Test
- Capillary Absorption** : $\leq 0.05 \text{ kg.m}^{-2}.\text{h}^{0.5}$ (EN 13057)

(*)These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- EN 1504-3 R4
- CE
- Public works pos no : 10.300.2072

PACKAGING

- 20 kg kraft bags (60 pieces on a pallet / 1200 kg)

CONSUMPTION

- 18-20 kg/m² (1 cm thickness)

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- It should be stored in a moisture-free and dry warehouse which is -well-protected against atmospheric conditions weather conditions.
- Shelf life is 1 year under proper storage conditions.
- Opened packages should be kept tightly closed.



Interior - Exterior



Surface Inspection



Application Temperature



Stir



Pot Life



Impact Resistance



Water Pressure Resistance



Application with Trowel



Freeze Thaw Resistance



Vertical Use

APPLICATION

APPLICATION PROCEDURE

| | |
|--------------------------------|----------------------|
| Application Thickness | : 5-30 mm |
| Application temperature | : +5 °C ; +35 °C |
| Pot Life | : 30 minutes (23 °C) |
| Putting into use | : Min. 1 day |
| Complete curing | : 28 days |
| Wait time between coats | : 2-3 hours |

SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.
- The surface should not be too dry or completely wet before application. Before applying on surfaces exposed to direct sunlight or overheated, the surface temperature should be reduced by moistening with water sprinkling method.
- It is recommended to use **CERMIFILM** primer on absorbent surfaces.
- In repairs to be made on old concrete and reinforcement, **CERMIREP PASIV T** should be used as a primer to increase adhesion, and **CERMIREP** repair mortar should be applied before it completely dries.

APPLICATION

- For a 20 kg bag of material, 3.2-3.6 liters (16-18%) of clean water should be slowly poured into a container with clean water and mixed with a low speed (400 rpm) hand mixer for 3-4 minutes until it reaches a homogeneous consistency.
- The mortar should be rested for 2-3 minutes and then mixed again before application.
- **CERMIREP R4 T** can be applied to all surfaces to be repaired using a steel trowel.
- If 2 coats are to be applied, wait 2-3 hours between coats. The times given in the application information and steps may be shortened or extended in different environmental conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

- Do not apply it on frost hazardous or overheated surfaces, under direct sunlight and in windy weather.
- If petrification is detected after opening the bags, the product should not be used.
- The product should be used within the life of the container after mixing.
- No foreign materials such as lime, cement or gypsum should be added into the mortar.
- Amount of water indicated on the bag should be observed.
- The applied surface should be moistened for 1-2 days, direct sunlight, wind, frost, etc. effects should be protected.
- Protect the applied surfaces against direct sunlight, rain and frost for at least 24 hours.
- Do not apply on new plastered or concrete surfaces before the curing time is completed.

SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIREP PASIV T

**CEMENT BASED, POLYMER REINFORCED,
ANTI-CORROSION, ADHESION-ENHANCING PRIMER MORTAR**



Grey



- *High adhesion strength to concrete and steel*
- *Resistant to water, moisture and chloride penetration*
- *Resistant to the effects of defrosting salts*

PRODUCT INFORMATION

WHERE TO USE

- Protection of concrete reinforcement from corrosion
- To increase adhesion strength by applying before repair mortars.

GENERAL FEATURES

| | |
|---------------------------|---------------------------------------------------|
| Dry Density | : 1,4 ±0,10 g/cm ³ |
| Mortar Density | : 2,00 ±0,10 g/cm ³ |
| Colour | : Grey |
| Chemical Structure | : Cement-based grey powder with polymer additive. |

TECHNICAL CHARACTERISTICS

| | |
|----------------------------------|-------------------------|
| Compressive Strength | : 40-60 MPa (EN 196-1) |
| Flexural Strength | : 5-10 MPa (EN 196-1) |
| Tensile Adhesion Strength | : 1,5-2,5 MPa (EN 1542) |

(*)These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions. 28 days 60-80 MPa (at 23 °C and RH60%)

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-3 standards

PACKAGING

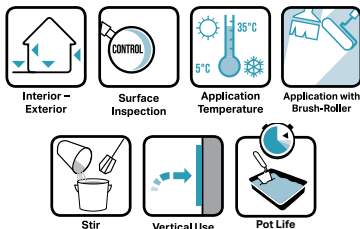
- 10 kg kraft bags (50 pieces on a pallet / 500 kg)

CONSUMPTION

- 1 liter of fresh mortar requires ~1.60 kg dry powder.
- As adherence mortar, ~1,5-2,0 kg/m² powder material is required.
- For reinforcement, ~ 4 kg/m² powder material is required for one coat as corrosion inhibitor (for 2 mm thickness).

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- It should be stored in a moisture-free and dry warehouse which is -well-protected against atmospheric conditions weather conditions.
- Shelf life is 1 year under proper storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Application temperature : +5 °C ; +35 °C
Pot Life : 60 minutes (23 °C)

SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.
- Fixing the mold to be applied, It must be sealed and cleaned very well.
- The ambient temperature during product application should be between +5 °C and +35 °C.

APPLICATION

- 10 kg bag of material should be slowly poured into a container containing 2,2-2,6 liters of clean water (22-26%) and mixed with a low-speed (400 rpm) hand mixer for 3-4 minutes until it reaches a homogeneous consistency.
- The mortar should be rested for 2-3 minutes and then mixed again before application.
- **CERMIREP PASIV T** can be applied to all surfaces to be repaired using a steel trowel.

RECOMMENDATIONS

- Do not apply it on frost hazardous or overheated surfaces, under direct sunlight and in windy weather.
- If petrification is detected after opening the bags, the product should not be used
- The product should be used within the life of the container after mixing.
- No foreign materials such as lime, cement or gypsum should be added into the mortar.
- Amount of water indicated on the bag should be observed.
- The applied surface should be moistened for 1-2 days, direct sunlight, wind, frost, etc. effects should be protected.
- Protect the applied surfaces against direct sunlight, rain and frost for at least 24 hours.
- Do not apply on new plastered or concrete surfaces before the curing time is completed.



SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIREP EP 2C T

EPOXY-BASED 2-COMPONENT, SOLVENT-FREE, STRUCTURAL REPAIR, ANCHORING MORTAR AND ADHESIVE



Grey



- *Vertical and overhead with its thixotropic structure ideal for applications*
- *High adhesion strength*
- *Hardens without shrinkage*
- *High initial and final strength*

- *High abrasion resistance*
- *Easy application*
- *Good abrasion resistance*
- *Chemical resistance*

PRODUCT INFORMATION

WHERE TO USE

- Structural concrete repairs, filling holes and gaps
- Anchoring and assembly works
- Bonding dilatation and insulation tapes
- Applicable to many different surfaces such as concrete, steel, wood, metal, polyester etc.

GENERAL FEATURES

| | |
|---------------------------|------------------------------------------------|
| Chemical Structure | : Epoxy resin |
| Density | : $1.8 \pm 0.02 \text{ g/cm}^3$ (mix) (+20 °C) |
| Colour | : Cream (mix. A+B) |

TECHNICAL CHARACTERISTICS

| | |
|--------------------------|-------------------------------------|
| Adhesion Strength | : Concrete >3 MPa Steel >3,5 MPa |
|--------------------------|-------------------------------------|

(*)These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- EN 1504-4

PACKAGING

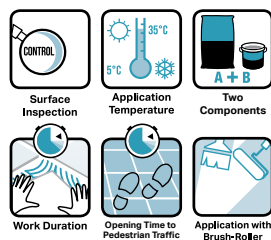
- 6 kg (A+B) Prebatched unit, 4,5 kg +1,5 kg in a metal buckets

CONSUMPTION

- Approximately $1,7\text{-}2 \text{ kg/m}^2$ (1 mm thickness)

STORAGE

- It should be stored in a moisture-free and dry warehouse which is -well-protected against atmospherical conditions weather conditions.
- Shelf life is 1 year under proper storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Mixing ratio: A comp. : B comp. / 3 : 1

Ambient Temperature: +5 °C min. / +35 °C max.

Pot life : 35- 45 minutes

Material Temperature: +10 °C and +30 °C.

Layer Thickness: 30 mm max.

Set time (for light pedestrian traffic): Min. 18 hour

Full curing time: 7 days (23 °C, 50% Relative humidity)

SUBSTRATE PREPARATION

•Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.

•**CERMIPRIME EPR 2C** primer should be applied on other surfaces such as polyester, epoxy, glass, ceramic, etc. before **CERMIREP EP 2C T** application.

APPLICATION

•A and B components are mixed by paying attention to the mixing ratios with a low-speed (400 rpm) hand mixer for 3-4 minutes until it reaches a homogeneous consistency.

•The mortar should be rested for 2-3 minutes and then mixed again before application.

•**CERMIREP EP 2C T** can be applied to all surfaces to be repaired using a steel trowel.



RECOMMENDATIONS

- Do not apply it on frost hazardous or overheated surfaces, under direct sunlight and in windy weather.
- If petrification is detected after opening the bags, the product should not be used.
- The product should be used within the life of the container after mixing.
- Do not apply on unsound surfaces.
- Protect the applied surfaces against direct sunlight, rain and frost for at least 24 hours.
- Do not apply on new plastered or concrete surfaces before the curing time is completed.

SAFETY INSTRUCTIONS

- Do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIGROUT

CEMENT BASED, FLOWABLE, HIGH-STRENGTH GROUT MORTAR



Grey



- *High compressive strength and adhesion strength*
- *Self-compacting with its highly fluid structure*
- *Non-shrinking and cracking*
- *Quick strength gainer, fiber reinforced*
- *Water and frost resistant*
- *Fast and easy application*

PRODUCT INFORMATION

WHERE TO USE

- In the assembly and fixing of steel, prefabricated concrete structural elements
- Machine and crane mounting bases
- Generator, compressor, pump etc. for fixing industrial machines
- Suitable for use between 10-70 mm at one time, structural grout mortar that can be used indoors and outdoors.

GENERAL FEATURES

| | |
|-----------------------|------------------------------------------------------------------------|
| Structure | : Cement-based grey powder and fiber reinforced with polymer additive. |
| Colour | : Grey |
| Dry Density | : $1.50 \pm 0.10 \text{ gr/cm}^3$ |
| Mortar Density | : $2.20 \pm 0.10 \text{ gr/cm}^3$ |

TECHNICAL CHARACTERISTICS

| | |
|-------------------------------|-----------------------------------------------------------------------|
| Compressive Strength | : $\geq 30 \text{ MPa}$ in 1 day, $\geq 50 \text{ MPa}$ in 28 days |
| Flexural Strength | : $\geq 7 \text{ MPa}$ |
| 28 days (at 23 °C and RH 60%) | |

(*)These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- EN 1504-3
- CE
- Public works pos no : 10.300.2073

PACKAGING

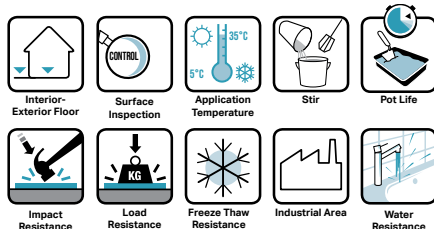
- 25 kg kraft bags (48 pieces on a pallet / 1200 kg)

CONSUMPTION

- Approximately $2,2\text{-}2,4 \text{ kg/m}^2$ (1 mm thickness)

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- It should be stored in a moisture-free and dry warehouse which is -well-protected against atmospheric conditions weather conditions.
- Shelf life is 6 months under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Mixing ratio : 3,75-4,25 lt water for 25 kg bag
Application thickness : 10-70 mm
Pot life : 30 min.
Application temperature : +5 °C ; +35 °C
Waiting time between layers : 3 hours
Set time (for pedestrian traffic) : Min. 24 hours

SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.
- The application mould should be fixed, impermeable and totally clean.
- The surface should be moistened before the application, and if there are puddles, they should be removed from the surface

APPLICATION

- 25 kg bag of material should be slowly poured into a container containing 3,75-4,25liters of clean water (15-17%) and mixed with a low-speed (400 rpm) hand mixer for 3-4 minutes until it reaches a homogeneous consistency.
- The mortar should be rested for 2-3 minutes and then mixed again before application.
- **CERMIGROUT**, which is in fluid construction, should be poured from one side of the preliminarily prepared mould without interruption. In that manner, air compression shall be avoided.
- In order to ensure that all the gaps inside the mould are filled, a steel wire should be bent to form a hook and settlement should be duly performed. Vibrators should not be used in any manner.
- Times given in application information and steps may be shortened or extended under different environmental conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

- Do not apply it on frost hazardous or overheated surfaces, under direct sunlight and in windy weather.
- If petrification is detected after opening the bags, the product should not be used.
- The product should be used within the life of the container after mixing.
- No foreign materials such as lime, cement or gypsum should be added into the mortar.
- Amount of water indicated on the bag should be observed.
- Do not apply on unsound surfaces.
- Protect the applied surfaces against direct sunlight, rain and frost for at least 24 hours.
- It is recommended to use a pump in large volume applications.
- Large surfaces open to external weather conditions should be protected for at least 48 hours and moistened at intervals.

SAFETY INSRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIGROUT EP 3C

EPOXY BASED, 3-COMPONENT, SOLVENT-FREE,
CHEMICAL RESISTANT GROUT AND ANCHORAGE
MORTAR.



Dark Brown



- *High corrosion and chemical resistance*
- *No shrinkage*
- *High adhesion strength*

- *High initial and ultimate strength*
- *High abrasion resistance*
- *Easy to apply*

PRODUCT INFORMATION

WHERE TO USE

- Repair of difficult surfaces such as airstrips, tunnels, bridges, factories, etc,
- Assembly of rail, steel, prefabricated structural elements
- Fixing of industrial machines such as turbines, generators, compressors etc.
- High resistance to vibration, heavy vehicle-load traffic

GENERAL FEATURES

| | |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Material structure | : Mixture of epoxy resin and special graded aggregate |
| Colour | : Dark Brown (A+B+C) |
| Density | : Component A 1.10±0.10 gr/cm ³ Component B 1.00±0.10 gr/cm ³ Component C 1.90±0.10 gr/cm ³ |
| Mixture Density | : 1.80±0.10 gr/cm ³ |

TECHNICAL CHARACTERISTICS

| | |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Compressive Strength (TS EN 12190) | : 1 day ≥ 80 MPa 14 days, 80-100 MPa |
| Tensile Strength in Bending (TS EN 12190) | : 1 day ≥ 30 MPa 14 days 30-40 MPa |
| Adhesion Strength Concrete slab ≥ 2.0 MPa (EN 1542) Metal plate ~15 – 20 MPa (EN 1542-EN 12188) | |
| Pot Life | : ~ 30 minutes (20-25°C) |

(*) These values are obtained as a result of laboratory tests and are the performance values of the finished applications after 28 days. Values may vary due to differences in the construction site environment.

STANDARDS AND DOCUMENTS

- EN 1504-3

PACKAGING

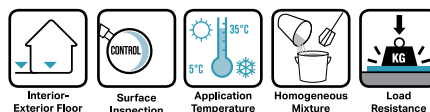
- 15 kg (2 kg + 1 kg + 12 kg) sets

CONSUMPTION

- 1.90-2.10 kg/m² (1 mm thickness)

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Mixing ratio: Component A : Component B : Component C = 2 : 1 : 12 by weight

Application temperature: +5 °C min.; +35 °C max.

Application Thickness: Min: 12 mm-Max: 50 mm

APPLICATION

- Firstly, components A and B are mixed until a homogeneous mixture is obtained. Then, component C is added to this mixture and mixed with a high speed drill.
- The material mixture is rested for 5 minutes and then mixed again for 2 minutes.

RECOMMENDATIONS

- Do not apply on frost hazardous or overheated surfaces, in direct sunlight or in high winds.
- Opened components A and B must be closed immediately after use.
- **CERMIGROUT EP 3C** should not be diluted with solvent.
- For anchoring applications, the hole diameter should be at least 7mm ($\phi + 7\text{mm}$) larger than the anchor diameter for vertical holes.

SAFETY INSTRUCTIONS

- Do not inhale, avoid contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during product application.
- Please read the Material Safety Data Sheet (MSDS) for more detailed safety information.

SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and must be dry, smooth and sound.
- Concrete must have sufficient strength.

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIANCHOR EP

2 COMPONENT, EPOXY ACRYLATE BASED CHEMICAL ANCHOR SYSTEM



Grey



- *High mechanical strength in a short time*
- *Fast curing*
- *High performance*
- *Thixotropic, non-sagging*

- *Easy to apply with its special gun*
- *High load carrying capacity*
- *Color retention*

PRODUCT INFORMATION

WHERE TO USE

- Rebar / reinforcement planting and reinforcement applications
- Bolts, rods and injection packers
- In construction materials such as concrete, brick, steel, hard natural stone and rock.

GENERAL FEATURES

A Comp. Density : $1,65 \pm 0.03 \text{ g/cm}^3$
B Comp. Density : $1,30 \pm 0.03 \text{ g/cm}^3$
Full curing time (20 °C) : 7 days
Consistency : Putty
Colour : Grey

TECHNICAL CHARACTERISTICS

Performance Data For Rods Into Concrete

| Sprout Diameter (mm) | Min. Hole Diameter (mm) | Hole (mm) | Min. Tensile Load (kN) |
|----------------------|-------------------------|-----------|------------------------|
| 8 | 10 | 80 | 7 |
| 10 | 12 | 100 | 11 |
| 12 | 14 | 120 | 16 |

PACKAGING

- 300 ml (A+B) x 12 per box

CONSUMPTION

| Diameter (mm) | Required Hole Diameter (mm) | Hole Depth (mm) | Amount Applied |
|---------------|-----------------------------|-----------------|----------------|
| 8 | 10 | 80 | 65 |
| 10 | 12 | 90 | 42 |
| 12 | 14 | 110 | 25 |
| 16 | 18 | 125 | 13 |
| 20 | 22 | 170 | 7 |
| 24 | 26 | 210 | 2 |

STORAGE

- Store the product in a ventilated place away from direct exposure to sunlight.
- Keep between +5°C and +25°C. Once the package is opened, it should be used in a month.
- Shelf life is 1 year under appropriate storage conditions.



Interior – Exterior



Surface Inspection



Application Temperature



Application with Silicone Gun

APPLICATION

APPLICATION PROCEDURE

Application temperature : +5 °C ; +30 °C

Mixing ratio : A comp. : B comp. / 3 : 1

Working And Hardening Times

| Temperature | Working Time | Loading Time |
|-------------|--------------|--------------|
| 5 °C | 25 ' | 2-3 h |
| 20 °C | 6 ' | 1 h |
| 30 °C | 4 ' | 30 ' |
| 35 °C | 2 ' | 25 ' |

SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.
- Concrete surfaces must be cured.
- Loose particles in the hole should be removed.



APPLICATION

- Unscrew the cap of the cartridge
- Screw the mixing nozzle onto cartridge Insert the cartridge in the gun
- Remove the mixture until the two components have a homogeneous light grey colour in the nozzle
- Choose a drill of suitable dimensions depending on the rod to be anchored
- Remove the water and dirt (dust and loose material) with a circular brush and a blower or with air pressure
- The items to be fastened must be clean
- By injecting 2/3 of the hole with chemical anchor fill it.
- Turn the anchor rod into the hole and remove the excess mortar. Observe that the part is protruding from the hole mouth.

SAFETY INSTRUCTIONS

- Do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIANCHOR PES

2 COMPONENT, POLYESTER BASED CHEMICAL ANCHOR SYSTEM



Grey

- *Fast curing*
- *Preserves its color*
- *High resistance to chemicals*

- *Preserves its color*
- *Applicable on damp surfaces*
- *Thixotropic, non-sagging*



PRODUCT INFORMATION

WHERE TO USE

- Rebar / reinforcement planting and reinforcement applications
- Bolts, rods and injection packers
- In construction materials such as concrete, brick, steel, hard natural stone and rock.

GENERAL FEATURES

A Comp. Density : $1,65 \pm 0,03 \text{ g/cm}^3$
B Comp. Density : $1,30 \pm 0,03 \text{ g/cm}^3$
Full curing time (20 °C) : 7 days
Colour : Grey

TECHNICAL CHARACTERISTICS

Working And Hardening Times

| Temperature | Working Time | Loading Time |
|-------------|--------------|--------------|
| 5 °C | 25 ' | 2-3 h |
| 20 °C | 6 ' | 1 h |
| 30 °C | 4 ' | 30 ' |
| 35 °C | 2 ' | 25 ' |

Performance Data For Rods Into Concrete

| Sprout Diameter (mm) | Min. Hole Diameter (mm) | Hole (mm) | Min. Tensile Load (kN) |
|----------------------|-------------------------|-----------|------------------------|
| 8 | 10 | 80 | 7 |
| 10 | 12 | 100 | 11 |
| 12 | 14 | 120 | 16 |

PACKAGING

- 300 ml (A+B) x 12 per box

CONSUMPTION

| Diameter (mm) | Required Hole Diameter (mm) | Hole Depth (mm) | Amount Applied |
|---------------|-----------------------------|-----------------|----------------|
| 8 | 10 | 80 | 65 |
| 10 | 12 | 90 | 42 |
| 12 | 14 | 110 | 25 |
| 16 | 18 | 125 | 13 |
| 20 | 22 | 170 | 7 |
| 24 | 26 | 210 | 2 |

STORAGE

- Store the product in a ventilated place away from direct exposure to sunlight.
- Keep between +5°C and +25°C. Once the package is opened, it should be used in a month.
- Shelf life is 1 year under appropriate storage conditions.



Interior - Exterior



Surface Inspection



Application Temperature



Application with Silicone Gun

APPLICATION

APPLICATION PROCEDURE

Application temperature : +5 °C ; +30 °C

Mixing ratio : A comp. : B comp. / 3 : 1

SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.
- The surface quality of the mortar and concrete must be at least 28 days old.
- Loose particles in the hole should be removed.



APPLICATION

- Unscrew the cap of the cartridge
- Screw the mixing nozzle onto cartridge Insert the cartridge in the gun
- Remove the mixture until the two components have a homogeneous light grey colour in the nozzle
- Choose a drill of suitable dimensions depending on the rod to be anchored
- Remove the water and dirt (dust and loose material) with a circular brush and a blower or with air pressure
- The items to be fastened must be clean
- In case the anchor is set in a hollow brick, introduce the sleeve of suitable dimensions (for brick: sleeve 16 mm x 85 mm, and for concrete block: sleeve 16 mm x 130 mm)

SAFETY INSTRUCTIONS

- Do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFLOOR 3-10

CEMENT-BASED, SELF-LEVELING, FLOOR LEVELING and PREPARATION SCREED



Grey



- *High mechanical and abrasion resistance*
- *Resistant to temperature changes and dusting*
- *Spreading fast with its fluid structure*
- *Forming a non-porous and smooth surface*
- *Non-cracking and non-collapse*
- *Quick and easy application*

PRODUCT INFORMATION

WHERE TO USE

- For obtaining a smooth surface before the application of PVC, linoleum, parquet, carpet, ceramic etc.
- On floors with underfloor heating,
- Leveling the defects on concrete and screed floors
- A surface smoothing screed that can be applied between 3-10 mm in one coat and self-leveling.

GENERAL FEATURES

| | |
|-----------------------|--------------------------------------------------------------------------------------|
| Structure | : High quality cement, powder product with filled and performance polymer additives. |
| Colour | : Grey |
| Dry Density | : $1.5 \pm 0.05 \text{ gr/cm}^3$ |
| Mortar Density | : $2.10 \pm 0.05 \text{ gr/cm}^3$ |

TECHNICAL CHARACTERISTICS

| | |
|-------------------------------|-------------------------------------------|
| Compressive Strength | : $\geq 25 \text{ MPa}$ (28 gün) |
| Flexural Strength | : $\geq 10 \text{ Mpa}$ (28 gün) |
| Temperature Resistance | : $-30^\circ\text{C} - +70^\circ\text{C}$ |

(*) These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- Tested according to EN 13813 standards
- CE

CONSUMPTION

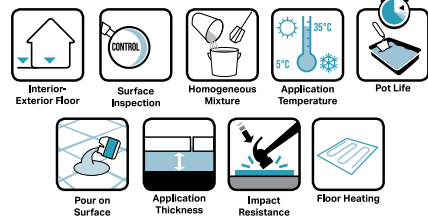
- Average: 1,9-2,1 kg/m² (for 1mm thickness)

PACKAGING

- 25 kg kraft bags

STORAGE

- Maximum 10 kraft bags can be put on top of each other.
- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



CERMIFLOOR 3-10**APPLICATION****APPLICATION PROCEDURE**

Application thickness: 3-10 mm

Pot Life: Maximum 30 minutes

Application method: Trowel or pump

Application temperature: +5 °C - +35 °C

Coating time: 24-48 hours

Opening time for pedestrian traffic: Min 24 hours (light pedestrian traffic)

SUBSTRATE PREPARATION

- The surfaces to be applied are free from dust, dirt, oil, etc. must be clean, dry, smooth and solid.
- Cracks and holes on the surface should be repaired with **CERMIMORTAR** or **CERMIREP** repair mortars.
- The floor should be primed with **CERMI FILM** before the application, and leveling screed should be applied after drying (approximately 1 hour).

APPLICATION

- 25 kg of **CERMIFLOOR 3-10** slowly into 5.5-6.5 liters (22-26%) of clean water by adding the mixture until it is lump-free and homogeneous (400rpm) is mixed using a mixer.
- The mixture is rested for 3 minutes before starting the application and is applied after mixing again.
- The prepared mixture is spread on the floor with a steel trowel and the thickness is adjusted. A spiked roller should be used to avoid air bubbles in the product.
- During the application, the application thickness should be determined in accordance with the door sills and the volumetric changes in the space.
- The times given in the application information and steps may be shortened or extended in different ambient conditions (low/high temperature, humidity, wind, etc.).

**RECOMMENDATIONS**

- The treated surfaces should be protected from direct sunlight, rain and frost for at least 24 hours.
- If petrification is detected after the bags are opened, the product should not be used.
- After the product is mixed, it should be used in the pot life.
- Any foreign material such as lime, cement, plaster should not be added to the prepared mortar.
- Pay attention to the amount of water indicated on the bag.
- In large area applications, expansion joints should be left every 30-40 m² and filled with **CERMITHANE** mastic or **CERMITAPE FPO** expansion profiles, taking into account possible thermal stress and mechanical loads.
- Direct on surfaces such as metal, rubber, PVC, wood, etc. application should not be made.
- CERMIFLOOR 3-10** should be poured in a smooth and continuous stream.

SAFETY INSTRUCTIONS

- Since it is cement based, it should not be inhaled and contact with skin and eyes should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFLOOR 4-30

CEMENT-BASED, SELF-LEVELING FLOOR LEVELING AND PREPARATION SCREED



Grey



- *High mechanical and abrasion resistance*
- *Resistant to temperature changes and dusting*
- *Spreading fast with its fluid structure*
- *Forming a non-porous and smooth surface*
- *Non-cracking and non-collapse, fiber reinforced*
- *Quick and easy application*

PRODUCT INFORMATION

WHERE TO USE

- Before the application of PVC, linoleum, parquet, carpet, ceramic etc.
- On floors with underfloor heating
- Leveling the defects on concrete and screed floors
- A surface smoothing screed that can be applied between 4-30 mm in one coat and self-leveling.

GENERAL FEATURES

| | |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| Structure | : High quality cement, powder product with filled, fibers reinforced and performance polymer additives. |
| Colour | : Grey |
| Dry Density | : $1.5 \pm 0.05 \text{ gr/cm}^3$ |
| Mortar Density | : $2.00 \pm 0.05 \text{ gr/cm}^3$ |

TECHNICAL CHARACTERISTICS

| | |
|-------------------------------|-------------------------------------------|
| Compressive Strength | : $\geq 30 \text{ MPa}$ (28 days) |
| Flexural Strength | : $\geq 10 \text{ Mpa}$ (28 days) |
| Temperature Resistance | : $-30^\circ\text{C} - +70^\circ\text{C}$ |

(*) These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- Tested according to EN 13813 standards
- CE

CONSUMPTION

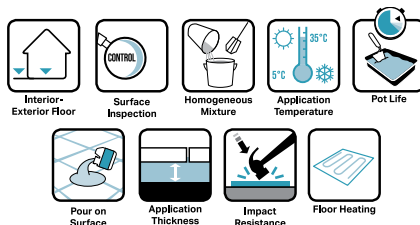
- Average: $1.9\text{-}2.1 \text{ kg/m}^2$ (for 1mm thickness)

PACKAGING

- 25 kg kraft bags

STORAGE

- Maximum 10 kraft bags can be put on top of each other.
- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Application thickness: 4-30 mm

Pot Life: Maximum 30 minutes

Application method: Trowel or pump

Application temperature: +5 °C - +35 °C

Coating time: 24-48 hours

Opening time for pedestrian traffic: Min 24 hours (light pedestrian traffic)

SUBSTRATE PREPARATION

- The surfaces to be applied are free from dust, dirt, oil, etc. must be clean, dry, smooth and solid.
- Cracks and holes on the surface should be repaired with **CERMIMORTAR** or **CERMIREP** repair mortars.
- The floor should be primed with **CERMI FILM** before the application, and leveling screed should be applied after drying (approximately 1 hour).

APPLICATION

- 25 kg of **CERMIFLOOR 4-30** slowly into 5.0-6.0 liters (%20 -24) of clean water by adding the mixture until it is lump-free and homogeneous (400rpm) is mixed using a mixer.
- 3 minutes before applying the mixture it is rested and applied after mixing again.
- The prepared mixture is spread on the floor with a steel trowel and the thickness is adjusted. A spiked roller should be used to avoid air bubbles in the product.
- During the application, the application thickness should be determined in accordance with the door sills and the volumetric changes in the space.
- The times given in the application information and steps may be shortened or extended in different ambient conditions (low/high temperature, humidity, wind, etc.).



RECOMMENDATIONS

- The treated surfaces should be protected from direct sunlight, rain and frost for at least 24 hours.
- If petrification is detected after the bags are opened, the product should not be used.
- After the product is mixed, it should be used in the pot life.
- Any foreign material such as lime, cement, plaster should not be added to the prepared mortar.
- Pay attention to the amount of water indicated on the bag.
- In large area applications, expansion joints should be left every 30-40 m² and filled with **CERMITHANE** mastic or **CERMITAPE FPO** expansion profiles, taking into account possible thermal stress and mechanical loads.
- Direct on surfaces such as metal, rubber, PVC, wood, etc. application should not be made.
- **CERMIFLOOR 4-30** should be poured in a smooth and continuous stream.

SAFETY INSTRUCTIONS

- Since it is cement based, it should not be inhaled and contact with skin and eyes should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFLOOR QR

CEMENT BASED, QUARTZ AGGREGATE FLOOR HARDENER



Grey



Green



Red



- Ability to obtain a smooth and homogeneous surface possibility
- Increasing resistance to impacts
- Preventing wear against mechanical loads
- Delaying surface dusting
- Suitable for medium vehicle-freight traffic

PRODUCT INFORMATION

WHERE TO USE

- On industrial floors exposed to moderate vehicle-freight traffic
- Warehouse, workshop, auto service-washing stations

GENERAL FEATURES

| | |
|---------------------------|----------------------------------|
| Material structure | : Powder |
| Colour | : Grey, Green, Red |
| Density | : $1.7 \pm 0.05 \text{ gr/cm}^3$ |

TECHNICAL CHARACTERISTICS

| | |
|----------------------------------|-----------------------------|
| Taber Abrasion Resistance | : < 3000 mg (EN ISO 5470-1) |
| Impact Resistance | : Class I (EN ISO 6272-1) |
| Temperature resistance | : -30 °C - +70 °C |

(*) These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-2 standards

CONSUMPTION

- Average: 4-6 kg/m² (for 1mm thickness)

PACKAGING

- 25 kg kraft bags

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.

Interior-
Exterior FloorSurface
InspectionApplication
TemperatureLight-Medium
Load Traffic

APPLICATION

APPLICATION PROCEDURE

Application temperature : +5 °C - +35 °C

Walkable : 24 hours

SUBSTRATE PREPARATION

- Although it varies according to the quality of the concrete, the entire surface must be homogeneous
- The thickness of the applied concrete should be at least 15 cm.
- The bearing concrete of the area to be applied should be at least C25 class.
- The surface of the fresh concrete to be applied should not be polished with a steel trowel or tray glaze. It should be smoothed with a wooden trowel.

APPLICATION

- Wait until the load-bearing concrete is walkable. The appropriate time is when the concrete has hardened enough to leave a 0.5-1.5 cm deep footprint when stepped on.
- The material is distributed over the whole surface by the method of scattering. The material should not be left on the surface in clumps should be as homogeneous as possible. Also the product to long distances so that the aggregates in it do not decompose sprinkling should not be done. This process can be done manually or by special spreading with equipment.
- Color the sprinkled material by absorbing the water of the concrete change should be expected.
- Its color is homogeneously sprinkled and absorbing the water. The changing material is compacted with tray glaze and mixed with concrete integration is achieved.
- Then, the blade is polished and the desired shine is achieved. This process is continued until it is achieved.



RECOMMENDATIONS

- Never water on the material during the application should not be discarded.
- Do not apply on frozen and frost hazardous surfaces.
- It should never be applied on overheated floors, in very sunny and strong windy weather. Accurate timing and finishing techniques use should be considered.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFLOOR BS

CEMENT BASED, BASALT AGGREGATE FLOOR HARDENER



Grey



Green



Red



- Ability to obtain a smooth and homogeneous surface possibility
- Increasing resistance to impacts
- Preventing wear against mechanical loads
- Delaying surface dusting
- Suitable for heavy vehicle-freight traffic

PRODUCT INFORMATION

WHERE TO USE

- On industrial floors exposed to heavy vehicle-load traffic
- Warehouse, workshop, auto service-washing stations

GENERAL FEATURES

Material structure : Powder
Colour : Grey, red, green
Density : $1.7 \pm 0.05 \text{ gr/cm}^3$

TECHNICAL CHARACTERISTICS (*)

Taber Abrasion Resistance : $< 3000 \text{ mg}$ (EN ISO 5470-1)
Impact Resistance : Class I (EN ISO 6272-1)
Temperature resistance : $-30^\circ\text{C} - +70^\circ\text{C}$

(*) These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-2 standards

CONSUMPTION

- Average: $4\text{-}6 \text{ kg/m}^2$ (for 1mm thickness)

PACKAGING

- 25 kg kraft bags

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.

Interior-
Exterior FloorSurface
InspectionApplication
TemperatureLight-Medium
Load Traffic

APPLICATION

APPLICATION PROCEDURE

Application temperature : +5 °C - +35 °C

Walkable: 24 hours

SUBSTRATE PREPARATION

- Although it varies according to the quality of the concrete, the entire surface must be homogeneous
- The thickness of the applied concrete should be at least 15 cm.
- The bearing concrete of the area to be applied is should be. at least C25 class.
- The surface of the fresh concrete to be applied should not be polished with a steel trowel or tray glaze. It should be smoothed with a wooden trowel.

APPLICATION

- Wait until the load-bearing concrete is walkable. The appropriate time is when the concrete has hardened enough to leave a 0.5-1.5 cm deep footprint when stepped on.
- The material is distributed over the whole surface by the method of scattering. The material should not be left on the surface in clumps should be as homogeneous as possible. Also the product to long distances so that the aggregates in it do not decompose sprinkling should not be done. This process can be done manually or by special spreading with equipment.
- Color the sprinkled material by absorbing the water of the concrete change should be expected.
- Its color is homogeneously sprinkled and absorbing the water. The changing material is compacted with tray glaze and mixed with concrete integration is achieved.
- Then, the blade is polished and the desired shine is achieved. This process is continued until it is achieved.



RECOMMENDATIONS

- Never water on the material during the application should not be discarded.
- Do not apply on frozen and frost hazardous surfaces.
- It should never be applied on overheated floors, in very sunny and strong windy weather. Accurate timing and finishing techniques use should be considered.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFLOOR CR

CEMENT BASED, CORUNDUM AGGREGATE FLOOR HARDENER



Grey



Green



Red



- *Ability to obtain a smooth and homogeneous surface possibility*
- *Increasing resistance to impacts*

- *Preventing wear against mechanical loads*
- *Delaying surface dusting*
- *Suitable for heavy vehicle-freight traffic*

PRODUCT INFORMATION

WHERE TO USE

- On industrial floors exposed to heavy vehicle-load traffic
- Warehouse, workshop, auto service-washing stations

GENERAL FEATURES

Material structure : Powder
Colour : Grey, red, green
Density : $1.7 \pm 0.05 \text{ gr/cm}^3$

TECHNICAL CHARACTERISTICS (*)

Taber Abrasion Resistance : $< 3000 \text{ mg}$ (EN ISO 5470-1)
Impact Resistance : Class I (EN ISO 6272-1)
Temperature resistance : $-30^\circ\text{C} - +70^\circ\text{C}$

(*) These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-2 standards

CONSUMPTION

- Average: $5-8 \text{ kg/m}^2$ (for 1mm thickness)

PACKAGING

- 25 kg kraft bags

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.

Interior-
Exterior FloorSurface
InspectionApplication
TemperatureLight-Medium
Load Traffic

APPLICATION

APPLICATION PROCEDURE

Application temperature : +5 °C - +35 °C

Walkable: 24 hours

SUBSTRATE PREPARATION

- Although it varies according to the quality of the concrete, the entire surface must be homogeneous
- The thickness of the applied concrete should be at least 15 cm.
- The bearing concrete of the area to be applied is should be. at least C25 class.
- The surface of the fresh concrete to be applied should not be polished with a steel trowel or tray glaze. It should be smoothed with a wooden trowel.

APPLICATION

- Wait until the load-bearing concrete is walkable. The appropriate time is when the concrete has hardened enough to leave a 0.5-1.5 cm deep footprint when stepped on.
- The material is distributed over the whole surface by the method of scattering. The material should not be left on the surface in clumps should be as homogeneous as possible. Also the product to long distances so that the aggregates in it do not decompose sprinkling should not be done. This process can be done manually or by special spreading with equipment.
- Color the sprinkled material by absorbing the water of the concrete change should be expected.
- Its color is homogeneously sprinkled and absorbing the water. The changing material is compacted with tray glaze and mixed with concrete integration is achieved.
- Then, the blade is polished and the desired shine is achieved. This process is continued until it is achieved.



RECOMMENDATIONS

- Never water on the material during the application should not be discarded.
- Do not apply on frozen and frost hazardous surfaces.
- It should never be applied on overheated floors, in very sunny and strong windy weather. Accurate timing and finishing techniques use should be considered.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFLOOR EP 2C

**EPOXY-BASED, 2 COMPONENT, SOLVENT-FREE,
SELF-LEVELLING, FLOOR COATING MATERIAL**



Grey



- *Easy to clean, scratch-proof*
- *Solvent free*
- *Mechanical and abrasion resistance*

- *Chemical resistant*
- *Easy application*
- *High adhesion strength*

PRODUCT INFORMATION

WHERE TO USE

- Storage, maintenance and assembly areas of industrial facilities,
- On floors such as hangar, parking lot, loading ramp etc.
- Pharmaceutical – in food production facilities, laboratories
- Applicable on asphalt surfaces

GENERAL FEATURES

Material structure : Epoxy
Colour : In colors from the Ral catalog
Density : 1.65 g/cm³
Viscosity : 1500 ± 500 mPas (mixture)

TECHNICAL CHARACTERISTICS (*)

Tensile Strength (DIN 16946) : 377,3 kg/cm²
Compressive Strength (3 mm thickness) : 650 kg/cm²
Adherence to Concrete : 43 kg/cm²
Hardness (Shore A, 7 days) : 85
Chemical resistance : deionized
 water 30% sulfuric acid, 30% nitric acid, 5% acetic acid, 20% caustic such as soda, toluene, xylene, Trichloroethylene, sugar solution, styrene resistant to chemicals.

(*) These values were obtained as a result of laboratory experiments. Values due to differences in site environment may change.

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-2 standards.
- CE

CONSUMPTION

- Average: 1.65 kg/m² (on one coat)

PACKAGING

- 20 kg (16 kg + 4 kg) metal bucket

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior-Exterior Floor



Surface Inspection



Application Temperature



Two Components



Pot Life



Application with Brush-Roller

CERMIFLOOR EP 2C

APPLICATION

APPLICATION PROCEDURE

Mixing ratio: A component 4 : B component 1

Application temperature: +5 °C - +35 °C

Application thickness: 2-3 mm

Waiting between coats: Min.6 - Max. 24 hours

Surface drying: 4-5 hours

Pot life : 1 hours

Through-dry time: 24 hours

SUBSTRATE PREPARATION

- The floor surface to be applied must be clean, free of dirt, must be free from dust.
- Corrupted, cracks and holes on the surface **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMIFLOOR** leveling screeds should be corrected and repaired.
- Pre-application surface **CERMIPRIME EPR 2C**, it should be primed with **CERMIPRIME PU**.

APPLICATION

- CERMIFLOOR EP 2C**, A Component and B Component Packed according to mixing ratios.
- Add Component B of the material slowly into Component A and mix with a low speed mixer until homogeneous and without lumps.
- Let the mixture rest for 5 minutes, then mix again for 1-2 minutes before application.
- The prepared mixture is applied to the surface with a brush or roller. It should be applied in 2 coats. First floor right to left or When applied from top to bottom, the second coat is applied as the first coat. should be applied in the opposite direction. The main purpose is to cover the surface with all material.
- It is easier to remove air bubbles by applying a spiked roller elimination is achieved.
- In case of using sand, 1st layer of undercoat 0.3-0.5 Micron sand is used. If sand is desired to be used on the last layer, 0.1 - 0.3 micron sand should be used. Material sand should be selected in accordance with the color.



RECOMMENDATIONS

- Water etc. and other materials should not be added to the product.
- Collapse or petrification after product packaging is opened, if detected, the product should not be used.
- The working time of the product is in unsuitable weather conditions may change.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIFLOOR PU 2C

**POLYURETHANE BASED, 2 COMPONENT,
SOLVENT-FREE, SELF-LEVELLING,
FLOOR COATING MATERIAL**



Grey

- *Easy to clean, scratch-proof*
- *Crack bridging with its semi-elastic feature*
- *Mechanical and abrasion resistance*

- *Chemical resistant*
- *Easy application*
- *High adhesion strength*



PRODUCT INFORMATION

WHERE TO USE

- Storage, maintenance and assembly areas of industrial facilities,
- On floors such as hangar, parking lot, loading ramp etc.
- Pharmaceutical – in food production facilities, laboratories
- Applicable on asphalt surfaces

GENERAL FEATURES

Material structure : The hardener contains polymeric MDI. The main material is a mixture of polyether and polyester. Contains pigments and fillers.

Colour : Grey

Density : $1,52 \pm 0.1 \text{ gr/cm}^3$ (A+B mixture)

TECHNICAL CHARACTERISTICS

Tensile Strength (DIN 16946) : $> 5 \text{ N/mm}^2$

Hardness (Shore D, 7 days) : 60-70

(*) These values were obtained as a result of laboratory experiments. Values due to differences in site environment may change.

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-2 standards.
- CE

CONSUMPTION

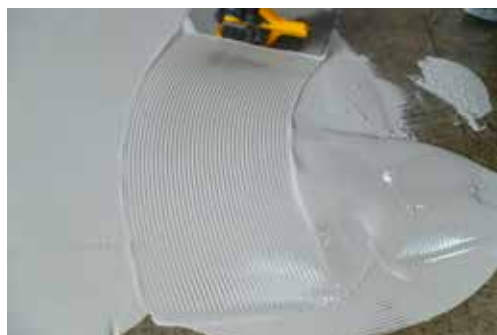
- Average: $1.3 - 1.4 \text{ kg/m}^2$ (For 1 mm thickness)

PACKAGING

- 24,5 kg (21kg + 3,5 kg) metal bucket

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior-
Exterior Floor



Surface
Inspection



Application
Temperature



Two
Components



Pot Life



Application with
Brush-Roller

CERMIFLOOR PU 2C

APPLICATION

APPLICATION PROCEDURE

Mixing ratio: A component 21 kg : B component 3.5 kg

Application temperature: +5 °C - +35 °C

Application thickness: 2-3 mm

Waiting between coats: Min.6 - Max. 24 hours

Pot life: 40 minutes

SUBSTRATE PREPARATION

- The floor surface to be applied must be clean, free of dirt, must be free from dust.
- Corrupted, cracks and holes on the surface **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMIFLOOR** leveling screeds should be corrected and repaired.
- Pre-application surface **CERMIPRIME EPR 2C**, it should be primed with **CERMIPRIME PU**.

APPLICATION

- CERMIFLOOR PU 2C**, A Component (Resin) and B Component (Hardener) Packed according to mixing ratios.
- Add Component B of the material slowly into Component A and mix with a low speed mixer until homogeneous and without lumps.
- Let the mixture rest for 5 minutes, then mix again for 1-2 minutes before application.
- The prepared mixture is applied to the surface with a brush or roller. It should be applied in 2 coats. First floor right to left or When applied from top to bottom, the second coat is applied as the first coat.
- should be applied in the opposite direction. The main purpose is to cover the surface with all material.
- It is easier to remove air bubbles by applying a spiked roller elimination is achieved.



RECOMMENDATIONS

- Water etc. and other materials should not be added to the product.
- Collapse or petrification after product packaging is opened, if detected, the product should not be used.
- The working time of the product is in unsuitable weather conditions may change.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMICOAT PU 2C

POLYURETHANE-BASED, 2 COMPONENT, SOLVENT-BASED, TOP COAT FLOORING MATERIAL



Many RAL Colors



- *Easy to clean, non-scratch*
- *Elastic*

- *Mechanical and abrasion resistance*
- *Chemical resistant*

PRODUCT INFORMATION

WHERE TO USE

- Storage, maintenance and assembly areas of industrial facilities,
- Parking lot, loading ramp etc.
- Showroom, office, hospital etc indoors

PACKAGING

- 16.8 kg (12 kg + 4.8 kg) metal bucket

STORAGE

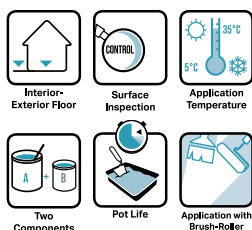
- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-2 standards.
- CE

CONSUMPTION

- Average: 0.100-0.150 kg/m² (on one coat)



TECHNICAL CHARACTERISTICS

| | | | | |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------|------------------|
| Chemical Structure | Polyurethane | | | |
| Color | Many RAL Colors | | | |
| Mixing Ratio | Base material: Hardener=100:40(by weight) | | | |
| Pot-life | 8 Hours | | | |
| Drying Time | 8-10 hours at 60% relative humidity and 23°C temperature | | | |
| Fire Resistance Report No: AB-0001-T-80802 | It has received positive results from the inspections and tests carried out according to Turkish Standards TS EN ISO 11925-2. The tested samples comply with TS EN 13501, Schedule 2 Efl class criteria. | | | |
| | "Matte Base Material" | "Semi Matte Base Material" | "Glossy Base Material" | Hardener |
| Viscosity (25°C) | 33±10 sec | 25±5 sec | 15±5 sec | 1300±200 sec |
| Density (25°C) | 1,20±0,05 gr/cm³ | 1,19±0,05 gr/cm³ | 1,20±0,05 gr/cm³ | 1,18±0,01 gr/cm³ |
| VOC Base Material: Mixture TOCHardener: | 450-530 g/L 400-480 g/L 292-297 g/L | | | |
| TOC Mixture: | 43-51% | | | |
| Between Coats Waiting | Minimum 10 hours at 23°C temperature | | | |
| Application time | Maximum 24 hours | | | |
| Taber Abrasion | (CS10 disk, 1000 p weight, 500/1000 rpm): 19/39 mg | | | |
| Pendulum Hardness | (23°C after 10 days): 105 sec | | | |
| Erichsen Value | 15,7mm | | | |
| Antislip | Dry R13 | | DIN 51131 | |
| Non-slip Scot: Matte: Semi-matte: Glossy: | Dry 1,06 0,85 0,88 | Wet R13 1,27 1,09 1,03 | ASM 825 | |
| Content | The hardener contains polymeric MDI with low vapor pressure. The base material contains polyester and pigment. | | | |

CERMICOAT PU 2C

APPLICATION

SUBSTRATE PREPARATION

- The floor surface to be applied must be clean, free of dirt, must be free from dust.
- The applied **CERMIFLOOR PU 2C** or similar polyurethane coating more than 24 hours ago before applying **CERMICOAT PU 2C**, if applied fine sanding should be done.

APPLICATION

- CERMICOAT PU 2C**, A Component (Resin) and B Component (Hardener) is packaged according to mixing ratios.
- Add Component B of the material slowly into Component A and mix with a low speed mixer until homogeneous and without lumps.
- Let the mixture rest for 5 minutes, then mix again for 1-2 minutes before application.
- The mixture prepared by brush, roller, spraying method. It should be applied to the surface as a minimum of 2 coats. first floor when applied from right to left or from top to bottom, the second coat application in the opposite direction of first coat application should be applied. The main purpose here is to cover the entire surface.
- Overlapping dots to avoid roll marks must be passed over again. Otherwise, the roll mark Air bubbles can be removed by applying a spiked roller easier removal.



RECOMMENDATIONS

- Water etc. and other materials should not be added to the product.
- Collapse or petrification after product packaging is opened if detected, the product should not be used.
- The working time of the product is in unsuitable weather conditions may change.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)



Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMICOAT PU 2CA

POLYURETHANE-BASED, 2 COMPONENT, SOLVENT-FREE, UV-RESISTANT, TOPCOAT FLOORING MATERIAL



In colors from the Ral catalog

- *Easy to clean, hygienic*
- *UV Resistant*
- *Impact and abrasion resistant*

- *Chemical resistant*
- *Non-yellowing*



PRODUCT INFORMATION

WHERE TO USE

- In outdoor applications where UV resistance is required,
- Storage, maintenance and assembly areas of industrial facilities,
- Parking lot, loading ramp etc.
- Showroom, office, hospital etc indoors

GENERAL FEATURES

Material structure : The hardener contains polymeric MDI. The main material consists of polyester and pigment.

Colour : In colors from the Ral catalog

Density : 1,3 g/cm³

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-2 standards.
- CE

CONSUMPTION

- Average: 0.10 - 0.15 kg/m² (on one layer)

PACKAGING

- 10 kg (8.33 kg + 1.67 kg) metal can

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior-
Exterior Floor



Surface
Inspection



Application
Temperature



Two
Components



Pot Life



Application with
Brush-Roller



UV Resistance

CERMICOAT PU 2CA

APPLICATION

APPLICATION PROCEDURE

Mixing ratio: 8.33 kg + 1.67 kg

Application temperature : +5 °C - +35 °C

Being able to walk on it: min. 12 hours

Mechanical and Chemical resistance: 7 days

Drying time: 1-2 hours

SUBSTRATE PREPARATION

- The floor surface to be applied must be clean, free of dirt, must be free from dust.
- The applied **CERMIFFLOOR PU 2C** or similar polyurethane coating more than 24 hours ago before applying **CERMICOAT PU 2CA**, if applied fine sanding should be done.

APPLICATION

- CERMICOAT PU 2CA**, A Component (Resin) and B Component (Hardener) is packaged according to mixing ratios.
- Add Component B of the material slowly into Component A and mix with a low speed mixer until homogeneous and without lumps.
- Let the mixture rest for 5 minutes, then mix again for 1-2 minutes before application.
- The mixture prepared by brush, roller, spraying method. It should be applied to the surface as a minimum of 2 coats. first floor when applied from right to left or from top to bottom, the second coat application in the opposite direction of first coat application should be applied. The main purpose here is to cover the entire surface.
- Overlapping dots to avoid roll marks must be passed over again. Otherwise, the roll mark Air bubbles can be removed by applying a spiked roller easier removal.



RECOMMENDATIONS

- Water etc. and other materials should not be added to the product.
- Collapse or petrification after product packaging is opened if detected, the product should not be used.
- The working time of the product is in unsuitable weather conditions may change.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMICOAT EP 2C

EPOXY-BASED, 2 COMPONENT, SOLVENT-FREE, TOP COAT FLOORING MATERIAL



Ral kataloğundaki renklerde



- *Easy to clean, scratch-proof*
- *Solvent free*
- *Mechanical and abrasion resistance*

- *Chemical resistant*
- *Easy application*
- *Dust-free, hygienic topcoat*

PRODUCT INFORMATION

WHERE TO USE

- Storage, maintenance and assembly areas of industrial facilities,
- On floors such as hangar, parking lot, loading ramp etc.
- Pharmaceutical – in food production facilities, laboratories

GENERAL FEATURES

| | |
|---------------------------|----------------------------------|
| Material structure | : Epoxy |
| Colour | : In colors from the Ral catalog |
| Density | : 1.55 g/cm ³ |
| Viscosity | : 1300 ± 500 mPas (mixture) |

TECHNICAL CHARACTERISTICS

| | |
|-----------------------|------------------|
| VOC | : A+B : <140 g/L |
| Taber Abrasion | : 72 mg |

(CS 10/1000/1000) 7 days / +23°C DIN 53 109

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-2 standards.
- CE

CONSUMPTION

- Average: 0.4-0.5 kg/m² (on one coat)

PACKAGING

- 10 kg (8 kg + 2 kg) metal bucket

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior-
Exterior Floor



Surface
Inspection



Application
Temperature



Two
Components



Pot Life



Application with
Brush-Roller

CERMICOAT EP 2C

APPLICATION

APPLICATION PROCEDURE

Mixing ratio: A component 4 : B component 1

Application temperature : +5 °C - +35 °C

Waiting between coats: 8-24 hours

Drying time: 5-7 hours

Pot life : 30 minutes

Curing time: 7 days

SUBSTRATE PREPARATION

- The floor surface to be applied must be clean, free of dirt, must be free from dust.
- Corrupted, cracks and holes on the surface **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMIFLOOR** leveling screeds should be corrected and repaired.

APPLICATION

- CERMICOAT EP 2C**, A Component and B Component Packed according to mixing ratios.
 - Add Component B of the material slowly into Component A and mix with a low speed mixer until homogeneous and without lumps.
 - Let the mixture rest for 5 minutes, then mix again for 1-2 minutes before application.
 - The prepared mixture is applied to the surface with a brush or roller. It should be applied in 2 coats. First floor right to left or When applied from top to bottom, the second coat is applied as the first coat.
- should be applied in the opposite direction. The main purpose is to cover the surface with all material.



RECOMMENDATIONS

- Water etc. and other materials should not be added to the product.
- Collapse or petrification after product packaging is opened, if detected, the product should not be used.
- The working time of the product is in unsuitable weather conditions may change.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMICOAT EP TIXO 2C

**EPOXY-BASED, 2 COMPONENT, SOLVENT-FREE,
ORANGE PEEL TEXTURE, TOP COAT FLOOR
COATING MATERIAL**



In colors from the Ral catalog



- *Easy to clean, scratch-proof*
- *Solvent free*
- *Mechanical and abrasion resistance*

- *Chemical resistant*
- *Non-slip feature thanks to its textured structure*
- *Easy application*

PRODUCT INFORMATION

WHERE TO USE

- Storage, maintenance and assembly areas of industrial facilities
- On ramps, hangars, parking lots, etc.
- Pharmaceutical - food production facilities, laboratories

GENERAL FEATURES

| | |
|---------------------------|----------------------------------|
| Material structure | : Epoxy |
| Colour | : In colors from the Ral catalog |
| Density | : 1.52 g/cm ³ |
| Viscosity | : 8000 ± 500 mPas (mixture) |
| Solids content | : 98% |

TECHNICAL CHARACTERISTICS

Shore D (23°C) : 68-75

Chemical resistance: Deionized water, H₂SO₄ (20%), NaOH (20%), Gasoline, Acetic Acid (5%), Glycerin, Nitric acid (30%), trichloroethylene, sugar solution, styrene, Ethyl Alcohol, Xylene, MIBK, Toluene is resistant to crude oil.

STANDARDS AND DOCUMENTS

- Tested according to EN 1504-2 standards.
- CE

CONSUMPTION

- Average: 0.4-0.5 kg/m² (on one coat)

PACKAGING

- 24 kg (20 kg + 4 kg)

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior-
Exterior Floor



Surface
Inspection



Application
Temperature



Two
Components



Pot Life



Application with
Brush-Roller

CERMICOAT EP TIXO 2C

APPLICATION

APPLICATION PROCEDURE

Mixing ratio: A component 5 : B component 1

Application temperature : +5 °C - +35 °C

Waiting between coats: 1 hours

Pot life : 45 minutes

Full drying: 1 days

SUBSTRATE PREPARATION

- The floor surface to be applied must be clean, free of dirt, must be free from dust.
- Corrupted, cracks and holes on the surface **CERMIMORTAR**, **CERMIREP** repair mortars or **CERMIFLOOR** leveling screeds should be corrected and repaired.

APPLICATION

- CERMICOAT EP TIXO 2C**, A Component and B Component packed according to mixing ratios.
- Add Component B of the material slowly into Component A and mix with a low speed mixer until homogeneous and without lumps.
- Let the mixture rest for 5 minutes, then mix again for 1-2 minutes before application.
- The prepared mixture is applied to the surface with a brush or roller. It should be applied in 2 coats. First floor right to left or when applied from top to bottom, the second coat is applied as the first coat. Should be applied in the opposite direction. The main purpose is to cover the surface with all material.



RECOMMENDATIONS

- Water etc. and other materials should not be added to the product.
- Collapse or petrification after product packaging is opened if detected, the product should not be used.
- The working time of the product is in unsuitable weather conditions may change.
- Protect the treated surfaces from direct sunlight, rain and frost for at least 24 hours.
- Its resistance to mechanical loads and chemicals is 7 days later.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMISIL AS

GENERAL PURPOSE, HYGIENIC, ACETIC, SILICONE SEALANT



Transparent



White



- *Excellent adhesion to many surfaces*
- *Mold resistant, hygienic*
- *Does not form pores during drying*

- *Its feature at low and high temperatures not losing*
- *Non-slip, easy-to-apply and long-lasting*

PRODUCT INFORMATION

WHERE TO USE

- In the details of the combination of sink, bathtub, toilet, shower cabin,
- Glass, aluminum, steel, PVC, porcelain etc. various structure elements in filling joints and in sealing,
- In the corner joints of ceramic tiles in bathroom and kitchen it is suitable for use.

GENERAL FEATURES

Material structure : Silicone sealant
Colour : Transparent / white
Density : 0,98 gr/cm³

TECHNICAL CHARACTERISTICS

Elongation at Break : $\geq 100\%$ (ASTM D412)
Temperature resistance : $-10\text{ }^{\circ}\text{C} / +80\text{ }^{\circ}\text{C}$
Shelling time : 50 ± 20 min
 (23 °C and 50% R.H)
Curing speed : 2 mm/day (23 °C and 50% R.H)
Shore A hardness : 40 – 70

CONSUMPTION

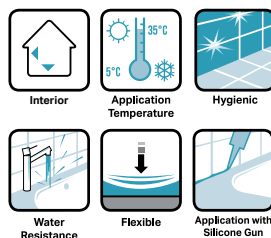
- 11 linear meter / 280 ml cartridge (3 mm joint width, 8 mm joint for depth)

PACKAGING

- 280 ml cartridge

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Application tool: silicone gun
Application temperature: +5 °C - +35 °C
Touch dry time: 10 minutes
Crusting time: 25 minutes

SUBSTRATE PREPARATION

- The application surface will prevent the adhesion of the silicone must be clean and dry, free from residue, oil and dirt.
- Non-porous surfaces (glass, vitreous ware, etc.) solvent type should be thoroughly cleaned with cleaning materials.
- Since the cleaning material will contain solvent, it should be removed from the surface should be dried without evaporation or residue.
- Surface to strengthen adhesion on various floors can be primed.

APPLICATION

- Silicone material to materials other than the joint edges application line to prevent contamination should be taped for masking throughout.
- The end of the cartridge package, taking into account the joint width, it is cut diagonally (at an angle of 45°) at the appropriate tip thickness. It is applied with **CERMISIL AS** silicone gun. Suitable amount of silicone is sprayed onto the surface along the joint line.
- Without making a crust on the silicone surface, using a silicone spatula or corrected with a silicone pen.
- After the application, the masking tapes are removed from the surface is dismantled. Dried silicone residue it can be cleaned using solvent cleaning materials.



RECOMMENDATIONS

- Contact with marble, cement based products and natural stones should not be carried; There may be staining.
- Due to the risk of corrosion, metal (lead, copper, brass, zinc, etc.) should not be contacted with surfaces.
- With organic elastomers such as EPDM, APTK and Neoprene should not be used together; may cause color loss.
- It is not painted over.
- Low temperature, high humidity and air circulation in environments where it is less, the curing time of the silicone is extended.

SAFETY INSRUCTIONS

- Acetic acid evaporation when the product comes into contact with air product will occur directly during application. Should not be inhaled. Environment during application should be ventilated and, if necessary, a protective mask should be worn.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMISIL AKR

GENERAL PURPOSE, ACRYLIC, SEALANT



Gray



White



- *Paintable*
- *Provides long-term flexibility*
- *Water, wind and moisture resistant*

- *Easy to apply and clean*
- *Waterproof after drying*
- *Odorless*

PRODUCT INFORMATION

WHERE TO USE

- At the junction points of different building elements
- Aluminum, PVC, wood, etc. in the assembly of joinery filling and sealing
- Ideal for filling cracks before painting.

GENERAL FEATURES

Chemical nature : Acrylic Dispersion

Consistency : Cake

pH : 7-9

Density : $1,62 \pm 0,03 \text{ gr/cm}^3$

TECHNICAL CHARACTERISTICS

Elongation at Break : $\geq 100 \%$ (ASTM D412)

Temperature resistance : $-10^\circ\text{C} / +80^\circ\text{C}$

Shelling time : $50 \pm 20 \text{ min}$ (23°C and 50% R.H)

Curing speed : 2 mm/day (23°C and 50% R.H)

Shore A hardness : 40 – 70

CONSUMPTION

- 12 linear meter / 310 ml cartridge (3 mm joint width, 8 mm joint for depth)

PACKAGING

- 310 ml cartridge or 600 ml sausage

APPLICATION PROCEDURE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior – Exterior



Application Temperature



Application with Silicone Gun



Water Resistance



Flexible

APPLICATION

APPLICATION PROCEDURE

- Min./max. joint width should be 5 mm/25 mm.
- The recommended width/depth ratio is 2/1.
- Application temperature should be between +5 °C and +40 °C.

SUBSTRATE PREPARATION

- The application surface must be free of residue, oil and dirt that prevents the adhesion of the silicone, and it must be clean and dry.
- Mixing 1 unit of acrylic mastic with 4-5 units of water as a primer on porous surfaces such as concrete and plaster applicable.

APPLICATION

- Silicone material to materials other than the joint edges application line to prevent contamination should be taped for masking throughout.
- The end of the cartridge package, taking into account the joint width, it is cut diagonally (at an angle of 45°) at the appropriate tip thickness. It is applied with **CERMISIL AKR** silicone gun. Suitable amount of silicone is sprayed onto the surface along the joint line.
- Without making a crust on the silicone surface, using a silicone spatula or corrected with a silicone pen.
- After the application, the masking tapes are removed from the surface is dismantled. Dried silicone residue it can be cleaned using solvent cleaning materials.



RECOMMENDATIONS

- The joint should be kept dry for at least two hours.
- Dried mastic can only be cleaned by mechanical method.
- In places where it may be constantly exposed to water should not be used.
- In outdoor environments where there is a risk of rain and frost application should not be made.
- It is an elastoplastic sealant, therefore it is not used in movable joints should not be used.
- Can only be painted over with sufficiently elastic paints.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMITHANE

POLYURETHANE BASED, EXPANSION SEALANT



Grey



White



- *Resistant to aging*
- *Paintable*
- *Resistant to different weather conditions*
(-30 °C / +70 °C)

- *Resistant to various chemicals*
- *Excellent adhesion to all kinds of surfaces*
- *High elasticity and waterproof*

PRODUCT INFORMATION

WHERE TO USE

- In horizontal-vertical expansion joints in buildings
- Glass, aluminum, steel, plastic, ceramic, concrete etc. A lot in filling the corner joints of the building element and ideal for sealing.

GENERAL FEATURES

Chemical nature : Polyurethane thixotropic putty
Density : $1.25 \pm 0,05 \text{ gr/cm}^3$ (ASTM D792)
Colour : White, Grey

STANDARDS AND DOCUMENTS

- CE

TECHNICAL CHARACTERISTICS

Elongation at Break : $\geq 600 \%$ (ASTM D412)
Shore A hardness : 25 – 30 (ASTM D2240)



CONSUMPTION

- 3 linear meter / 600 ml sausage (20 mm joint width, 10 mm joint for depth)

PACKAGING

- 600 ml sausage

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior – Exterior



Application Temperature



Application with Sausage Gun



Waterproof



Very Flexible



Dilatation



Freeze Thaw Resistance



Crack Bridging



Impact Resistance

APPLICATION

APPLICATION PROCEDURE

Application Temperature: +5 °C / +40 °C

Surface Drying Time: 30-60 minutes (23 °C and 55% RH)

Hardening Time: 24 hours (for min. 2 mm thickness)

Max. Joint Spacing: 4 cm

SUBSTRATE PREPARATION

- Residue, oil and dirt that will prevent adhesion on the application surface must be free from dirt, clean and dry.
- During the application, the width / depth ratio is 2/1 attention should be paid.

APPLICATION

- By placing the product on the surface and taking support, continuously (without creating bubbles) and fill the gap completely.
- You can press and straighten it with a spatula or similar tool.

RECOMMENDATIONS

- In joints; to provide the desired depth when necessary, grouting rod should be used.
- Adhesion of the sealant to three surfaces during application bonding failure in joint material in case of there is a risk of formation, only on two opposing surfaces, adhesion must be achieved. In such cases, the joint between the sealing material and the surface or filler rod, anti-adhesion materials should be placed.



SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMITHANE MS

MS POLYMER BASED, NEUTRAL STRUCTURE,
SOLVENT-FREE, EXPANSION and SEALING SEALANT



Grey



White



- *Low modulus of elasticity*
- *High adhesion strength*
- *Bubble even on damp or wet surfaces not observed*

- *High UV resistance*
- *Can be painted over with water-based paints*
- *Long lasting without loss of volume*
- *Waterproof*

PRODUCT INFORMATION

WHERE TO USE

- In horizontal-vertical expansion joints in buildings
- Glass, aluminum, steel, plastic, ceramic, concrete etc. A lot in filling the corner joints of the building element and ideal for sealing.

GENERAL FEATURES

Chemical nature : MS Polymer
Density : 1,38 ± 0,03 gr/ml
Colour : White, Grey

TECHNICAL CHARACTERISTICS

Shelling Time: : approx. 60 min
 (23 °C and 50% R.H.)
Curing Performance: : ~2.50 mm/ 24 hours
 (23°C and 50% R.H.)
Yield (ISO 7390): : 0 mm
E100 Module (ISO 8339) : < 0,4 N/mm²
Elongation at Break (ISO 37) : ≥ % 350
Volume Loss: : < -%3 (23 °C ve %50 R.H.)
Tensile Strength (ISO 37) : 1,0 -1,5 N/mm²
Shore A Hardness (ISO 868) : 25 ± 5

CONSUMPTION

- 3 linear meter / 600 ml sausage (20 mm joint width, 10 mm joint for depth)

PACKAGING

- 600 ml sausage

STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Interior – Exterior



Application Temperature



Application with Sausage Gun



Waterproof



Very Flexible



Dilatation



Freeze Thaw Resistance



Crack Bridging



Impact Resistance

APPLICATION

APPLICATION PROCEDURE

Surface and ambient temperature: +5 °C / +40 °C

Heat Resistance: -40 °C / +90 °C

SUBSTRATE PREPARATION

- Residue, oil and dirt that will prevent adhesion on the application surface must be free from dirt, clean and dry.
- On non-porous surfaces such as glass and metal should not be a coating material, pre-treatment if necessary it should be cleaned with cellulosic thinner. In addition to metal floors must be treated to prevent rust.
- Requirement on sensitive surfaces and smooth edges masking tape is recommended.
- Can be used without plaster.

APPLICATION

- Before the cartridge is used, its mouth is cut off and the cannula is inserted.
- The tip of the tip is cut according to the width of the application surface, the cartridge is attached to the gun.
- The sausage package is cut from one end and attached to the appropriate gun is placed. Then the union nut screwed into the cylinder.
- During the application, the gaps and gaps should be removed at once must be filled in.
- The surface of **CERMITHANE MS**, which is sprayed into the joints, is immediately damp with a spatula, buffing board, joint iron, or fingers should be straightened.
- If used, the adhesive tape should be removed later.
- Contaminated areas and used tools before curing industry can be cleaned with gasoline or alcohol.
- Mechanically only after curing is complete can be cleaned.



RECOMMENDATIONS

- In joints; to provide the desired depth when necessary, grouting rod should be used.
- Adhesion of the sealant to three surfaces during application bonding failure in joint material in case of there is a risk of formation, only on two opposing surfaces, adhesion must be achieved. In such cases, the joint between the sealing material and the surface or filler rod, anti-adhesion materials should be placed.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMITHANE PC 2C

POLYMER BASED, TAR MODIFIED 2 COMPONENT EXPANSION and SEALING SEALANT



Black



- Jet fuels, hydraulic oils, sea water resistant
- Cold applied
- High elastic
- Waterproof
- Long lasting

PRODUCT INFORMATION

WHERE TO USE

- Joints on airport runways, highways and bridges gaps, repairing and insulating cracks
- Ports, large parking areas, loading areas
- Fuel stations, petrochemical etc. in industrial areas it is suitable for use.

GENERAL FEATURES

Chemical nature : Modified with tar polymer based sealant

Density : 1,38 ± 0,03 gr/ml (ASTM D1475)

Colour : Black

Viscosity : 10000-14000 cP (ASTM D2196-86)

TECHNICAL CHARACTERISTICS

Elongation at Break : > % 650 (ASTM D412)

Tensile Strength (ISO 37) : > 0,65 Mpa (ASTM D412)

Shore A Hardness (ISO 868) : 15-20 (ASTM D2240) ,7 days

CONSUMPTION

- 2.2 linear meter / kg (20 mm joint width, 15 mm joint for depth)

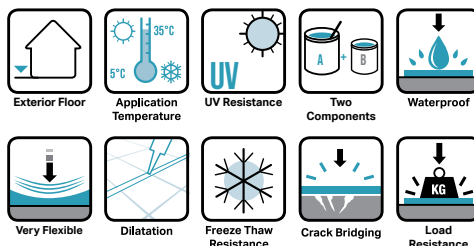
PACKAGING

- 12 kg (10 kg + 2 kg) metal bucket (60 pieces on pallet)



STORAGE

- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

SUBSTRATE PREPARATION

- **CERMITHANE PC 2C** using polyethylene suppositories, it is prevented from sticking to the joint bottoms. This is a two-way movement gives ability.
- The size of the polyethylene wick is 20-25% of the joint diameter must be large.

APPLICATION

- Component A is mixed in itself, then component B is added. It is mixed very well until a homogeneous color is obtained.
- Min. 300-400 rpm power mechanical mixers should be used.
- Injecting into the joint without creating air bubbles is done.



RECOMMENDATIONS

- In closed areas due to long-term solvent smell should not be applied or the environment should be well ventilated.
- In cold weather, packages should be applied for at least 24 hours. It should be stored at +15 °C first.
- After the application, water, rain, snow etc. effects should be protected.
- Full mechanical and chemical resistance within 7 days occur should be taken into account.

SAFETY INSTRUCTIONS

- It should not be inhaled, and eye contact should be avoided.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMITHERM CT500

CEMENT BASED THERMAL INSULATION BOARD ADHESIVE



Gray



- *Resistant to thermal shocks and humidity*
- *High adhesion strength and performance*
- *Suitable for use on all types of thermal insulation boards*

PRODUCT INFORMATION

WHERE TO USE

• Thermal insulation panels on interior and exterior facades, (CT ROCKWOOL, CT XPS, CT EPS, CT LAMPDOPOR) as adhesive suitable for use.

GENERAL FEATURES

Material Structure : High quality cement, elasticity and water impermeability superior adhesion with additives contains auxiliary ingredients.

Color : Gray

Density : 1,4 gr/cm³

Mixture Density : 1,7 gr/cm³

TECHNICAL CHARACTERISTICS

On thermal insulation board;

Adhesion strength (EN 13494): ≥ 0.08 (N/mm²)

STANDARDS AND DOCUMENTS

- Tested according to EN 13566 standard.
- Public Works pose no. 10.300.1013

CONSUMPTION

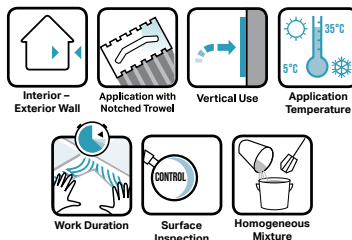
- LAMPDOPOR, 4-5 kg/m² in XPS and EPS sheets
- 5-6 kg/m² in rockwool boards

PACKAGING

- 25 kg kraft bag

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Application Thickness (for Notching): 3-8 mm

Application Temperature: (+5 °C) - (+35 °C)

Service Temperature: (-20 °C) - (+80 °C)

Rest Time: 5 minutes

Pot Life: 2-3 hours

Full Drying Time: 28 days

SUBSTRATE PREPARATION

- The floor surface to be applied must be clean, free of dirt, must be free from dust.
- Surface plaster applied on thermal insulation boards must be plugged in.

APPLICATION

- 5.5-6.5 liters (22-26%) clean to 25 kg **CERMITHERM CT500** slowly add water and mix with a low speed mixer until the mixture is homogenous and free of lumps.
- Allow the mixture to rest for 5 minutes before application and apply after mixing again.
- If the application surface is smooth, spread **CERMITHERM CT 500** on the thermal insulation board with the flat side of the toothed steel trowel and then comb it with the toothed side.
- If there are elevation differences on the application surface, the thermal insulation board should be adhered with the point adhesion method. In this method, along the four edges of the thermal insulation board, adhesive should be applied, and dot adhesive should also be applied to the center and corner areas of the board.
- The height of the adhesive on the edges and in the center should be the same.
- Before the insulation board is glued, the back surface must be at least 40% should be covered with **CERMITHERM CT 500**.
- Adhesive for joints to prevent heat loss must not be overflowed.
- Mechanical doweling must be completed min. 24-48 should be done after hours.



RECOMMENDATIONS

- After application, the surface should be protected from contact with water for at least 24 hours.
- Do not apply on surfaces that are in danger of frost or overheated, under direct sun and in high winds.
- Do not apply on newly plastered or concrete surfaces before the curing time is completed.
- To prevent heat loss, the thermal insulation boards should be well should be placed in close proximity and joint gaps should be as little as possible.
- Product storage conditions must be complied with, damp and waterlogged products should not be stocked in warehouses.

SAFETY INSRUCTIONS

- Should not be inhaled as it is cement based. Skin and eyes contact should be avoided.
- Use appropriate work equipment during product application. (gloves, goggles, mask, knee pads, etc.) are recommended is provided.
- For more detailed safety information please refer to Material Read the Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMITHERM CT600

CEMENT BASED, SURFACE CORRECTION PLASTER USED IN THERMAL INSULATION BOARD



Gray



- *Easy to apply*
- *Resistant to thermal shocks and humidity*
- *High adhesion strength and performance*
- *Suitable for use on all types of thermal insulation boards*

PRODUCT INFORMATION

WHERE TO USE

• Thermal insulation panels on interior and exterior facades, (CT ROCKWOOL, CT XPS, CT EPS, CT LAMPDOPOR) as adhesive suitable for use.

GENERAL FEATURES

Material Structure : High quality cement, elasticity and water impermeability superior adhesion with additives contains auxiliary ingredients.

Color : Gray

Density : $1,3 \pm 0,1 \text{ gr/cm}^3$

Mixture Density : $1,8 \pm 0,1 \text{ gr/cm}^3$

TECHNICAL CHARACTERISTICS

Water Absorption (1015-18): $< 0.5 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

Water Vapor Permeability Coefficient

(TSE EN 1015-19): $\leq 15 \mu$

Flexural Strength-28 days (Mpa): $\geq 2.0 \text{ N/mm}^2$

Compressive Strength- 28 days (Mpa): $\geq 6.0 \text{ N/mm}^2$

Hollow specific bulk gravity of hardened cement based mortar(TS EN 1015 - 10): $1400 \pm 300 \text{ kg/m}^3$

Adhesion Strength (EN 13494): $\geq 0.08 \text{ N/mm}^2$

STANDARDS AND DOCUMENTS

- Tested according to EN 13687 standard.
- Public Works pose no. 10.330.2505

CONSUMPTION

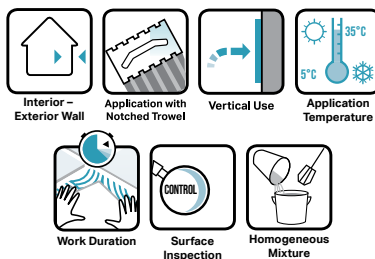
- LAMPDOPOR, 4-5 kg/m² in XPS and EPS sheets
- 5-6 kg/m² in rockwool boards

PACKAGING

- 25 kg kraft bag

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



APPLICATION

APPLICATION PROCEDURE

Application Thickness (for Notching): min. 3-4 mm

Application Temperature: (+5 °C) - (+35 °C)

Service Temperature: (-20 °C) - (+80 °C)

Rest Time: 5 minutes

Pot Life: 2 hours

Full Drying Time: 28 days

SUBSTRATE PREPARATION

- The thermal insulation board to be applied is well adhered to the surface, must be smooth and solid.
- The plastering process must be carried out at least It should be started after 24 hours.
- Gaps between the installed thermal insulation boards should be filled with the same insulating material or foam.

APPLICATION

- Slowly add 6-6,5 liters (%24-26) of clean water to 25 kg of **CERMITHERM CT600** and mix with a low speed mixer until the mixture is homogeneous and without lumps.
- Allow the mixture to rest for 5 minutes before application and apply after mixing again.
- CERMITHERM CT 600** is applied on thermal insulation boards with a steel trowel.
- The plaster reinforcement mesh is embedded into the first layer of **CERMITHERM CT600** with the help of a steel trowel while the plaster mortar is still fresh.
- In order to prevent the formation of cracks, plaster nets are applied with an overlap of approximately 10 cm at the joints.
- At corners, window-door edges and critical details, plaster reinforcement mesh should be rotated at least 15-20 cm overlapping.
- At door, window and cavity corners, reinforcing mesh pieces of minimum 20x60cm size should be placed diagonally.
- After 3-5 hours, the 2nd layer of **CERMITHERM CT 600** surface plaster is applied.
- The applied plaster thickness should be minimum 3-4mm in two coats.
- Textured top coat coating material application is applied after the 2nd coat plaster is completely dry (min. 7 days).



RECOMMENDATIONS

- After application, the surface should be protected from contact with water for at least 24 hours.
- Do not apply on surfaces that are in danger of frost or overheated, under direct sun and in high winds.
- Do not apply on newly plastered or concrete surfaces before the curing time is completed.
- To prevent heat loss, the thermal insulation boards should be well should be placed in close proximity and joint gaps should be as little as possible.
- Product storage conditions must be complied with, damp and waterlogged products should not be stocked in warehouses.

SAFETY INSTRUCTIONS

- Should not be inhaled as it is cement based. Skin and eyes contact should be avoided.
- Use appropriate work equipment during product application. (gloves, goggles, mask, knee pads, etc.) are recommended is provided.
- For more detailed safety information please refer to Material Read the Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMITHERM CT700

CEMENT BASED, TEXTURED, TOP COAT EXTERIOR COATING MATERIAL



White



- *Resistant to thermal shocks and humidity*
- *Allows the structure to breathe with vapor permeability*
- *High adhesion strength and performance*
- *No cracking, spilling, blistering*
- *Line and Fine textured product alternatives*

PRODUCT INFORMATION

WHERE TO USE

• It is used as a topcoat coating material on the exterior facades of all buildings and exterior thermal insulation systems.

- **Cermitherm CT700 Fine** ; Fine texture
- **Cermitherm CT700 Lined** ; Lining textured

GENERAL FEATURES

Material Structure : It contains high quality cement, additives that provide elasticity and water impermeability, auxiliary materials and fibers that provide superior adhesion.

Color : White

Density : $1,5 \pm 0,1 \text{ gr/cm}^3$

Mixture Density : $1,8 \pm 0,1 \text{ gr/cm}^3$

TECHNICAL CHARACTERISTICS

Dry Film Thickness (TS EN 1062 - 1): Class E5

Grain size (TS EN 2585): Class S3

Water vapor transfer rate (TS EN ISO 7783 - 2): Class V0

Water transfer rate (TS EN 1062 - 3): Class W0

Carbon Dioxide Permeability (TS EN 1062-6): Class C0

Crack Bridging Capability: Class A0

STANDARDS AND DOCUMENTS

- Tested according to EN 7847 standard.
- Public Works pose no. 10.300.1353

CONSUMPTION

- 2,10-2,3 kg/m² for 1,0-1,5 mm thickness

PACKAGING

- 25 kg kraft bag

STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- Moisture-free, dry and protected against external weather conditions should be stocked in warehouses.
- Shelf life is 1 year under appropriate storage conditions.
- Opened packages should be kept tightly closed.



Exterior Wall



Application with Notched Trowel



Application Temperature



Vertical Use



Freeze Thaw Resistance



Work Duration



Surface Inspection



Homogeneous Mixture



Impact Resistance



Breathing Ability

APPLICATION

APPLICATION PROCEDURE

Application Thickness (For Notching): 1,5-2,0 mm

Application Temperature: (+5 °C) - (+35 °C)

Service Temperature: (-20 °C) - (+80 °C)

Rest Time: 5 minutes

Operating Time: 30 minutes

Pot Life: 2 hours

SUBSTRATE PREPARATION

- The floor surface to be applied must be clean, free of dirt, must be free from dust.
- Surface plaster applied on thermal insulation boards must be plugged in.

APPLICATION

- Slowly add 5.25-6.25 liters (%21-25) of clean water to 25 kg of **CERMITHERM CT 700** and mix with a low speed mixer until the mixture is homogeneous and without lumps.
- Allow the mixture to rest for 5 minutes before application and apply after mixing again.
- Apply **CERMITHERM CT 700** to the surface with a stainless steel trowel.
- To obtain a textured texture; it is troweled with a plastic trowel in a circular and homogeneous manner.
- The material applied homogeneously on the application surface should be patterned within 10 minutes.



RECOMMENDATIONS

- After application, the surface should be protected from contact with water for at least 24 hours.
- Do not apply on surfaces that are in danger of frost or overheated, under direct sun and in high winds.
- Do not apply on newly plastered or concrete surfaces before the curing time is completed.
- For textured topcoat application, make sure that the surface is fully set.
- Care should be taken to apply the plaster in the same direction in order to create an extrusion.
- Make sure that the surface is dry before paint application.
- If it rains after **CERMITHERM CT 600** application, **CERMITHERM CT 700** should be applied after waiting for the wet surface to dry.
- Product storage conditions should be complied with and the product should not be stored in damp and waterlogged warehouses.

SAFETY INSTRUCTIONS

- Should not be inhaled as it is cement based. Skin and eyes contact should be avoided.
- Use appropriate work equipment during product application. (gloves, goggles, mask, knee pads, etc.) are recommended is provided.
- For more detailed safety information please refer to Material Read the Safety Data Sheet (MSDS).

Note: Technical values and application instructions are valid under ambient temperature of 23°C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

CERMIX TILE ADHESIVES PRODUCT RECOMMENDATION TABLE

| TILE FORMAT | | CERMICOL EXTRA | CERMICOL SUPER | CERMI FLEX | CERMIGRES | CERMIGRANIT | CERMIPLUS | CERMIPOOL | CERMIPLUS RAPID | CERMIPLUS XL | CERMI FIFX HP | CERMI FIFX PU 2C |
|------------------------|----------------------------------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------------------|-----------------------------------------|------------------------------------------------------|
| | | ≤ 1.600 cm ² (40x40 cm) | ≤ 1.600 cm ² (40x40 cm) | ≤ 3.600 cm ² (60x60 cm) | "≤ 3.600 cm ² (60x60 cm)" | "≤ 7.200 cm ² (60x120 cm)" | "≤ 7.200 cm ² (60x120 cm)" | "≤ 7.200 cm ² (60x120 cm)" | "≤ 7.200 cm ² (60x120 cm)" | "≤ 14.400 cm ² (120x120 cm)" (****) | "≤ 3.600 cm ² (60x60 cm)" | "≤ 14.400 cm ² (120x120 cm)" (****) |
| | Porcelain Tile, Granite Tile, Cotto, Clinker etc | | | ≤ 3.600 cm ² (60x60 cm) | "≤ 3.600 cm ² (60x60 cm)" | "≤ 7.200 cm ² (60x120 cm)" | "≤ 7.200 cm ² (60x120 cm)" | "≤ 7.200 cm ² (60x120 cm)" | "≤ 7.200 cm ² (60x120 cm)" | "≤ 14.400 cm ² (120x120 cm)" (****) | "≤ 3.600 cm ² (60x60 cm)" | "≤ 14.400 cm ² (120x120 cm)" (****) |
| APPLICATION SURFACE | Cement Based Plaster, Screed, Concrete etc | X | X | X | X | X | X | X | X | X | X | |
| | Gypsum Plaster, Pannel (*) | | X | X | X | X | X | | X | | X | |
| | Existing Tile (**) | | X | X | X | X | X | X | X | X | X | |
| | Painting | | X | X | X | X | X | | X | | X | |
| | Wood, Metal etc | | | | | | | | | | | X |
| APPLICATION AREA | Interior | X | X | X | X | X | X | | X | | X | X |
| | Exterior | | | X | X | X | X | X | X | X | | X |
| | Floor Heating System, Terrace, Cold Storage | | | | | X | X | | | X | | |
| | Floors Exposed to Heavy Foot Traffic (Hospital, Shopping Center etc) | | | | | X | X | | | X | | X |
| | Pool, Turkish Bath, Water Tank | | | | | | X | X | | X | | |
| | Exterior Tiling of Ceramic (****) | | | | | | | | | X | | |
| | Rapid Tiling of Places (Bank, Cafe, Supermarket etc) | | | | | | | | X | | | |

(*) Surface should be primed with CERMIFILM before cementitious product applications.

(**) Surface should be primed with CERMIFILM PLUS / CERMIFILM PLUS RAPID before cementitious product applications.

(****) Surface should be primed with CERMIFILM. Application should be applied with combined bonding method, up to 10 m height, max sized 60x60 cm ceramic. Please contact Koramic Technical Service for more information.

(*****) Please contact Koramic Technical Services Department for different sized ceramic tile applications.

WATERPROOFING PRODUCTS RECOMMENDATION TABLE

| APPLICATION AREA | | CERMICRYL | CERMICRYL UV | CERMIPROOF SF | CERMIPROOF FF | CERMIPROOF FF PLUS | CERMIPROOF UV | CERMIPROOF CRYSTAL | CERMIPROOF PU / PU 2C | CERMIPROOF PB / PB 2C | CERMIPROOF BITÜM / BITÜM 2C / BITÜM PLUS | CERMIPROOF PURE POLYUREA 2C | CERMIPROOF HYBRID POLYUREA 2C |
|-----------------------------|------------------------------------------------|-----------|-----------------|------------------|------------------|-----------------------|------------------|-----------------------|--------------------------|--------------------------|------------------------------------------------|-----------------------------------|-------------------------------------|
| Roof and Terra- ce | Foundation, Curta- in And Basement Walls | | | | | | | X | | X | X | | |
| | Drinking Water Tank | | | | X | X | | | | | | X | |
| | Wet Areas, Bath- room, Kitchen, Balcony | X | | X | X | X | | | | | | | |
| | Turkish Bath And Sauna | | | X | X | X | | | | | | | |
| Thermal/Individual Pool | UV-expo- sed, not traveled on | | X | | | | X | | | | | | |
| | Before coating | | | | X | X | | | X | X | | | |
| | Large areas | | | | | | | | | | | X | X |
| Olympic Pool | | | | | | X | | X | X | X | | X | X |
| | | | | | | X | | X | X | X | | X | X |
| | | | | | | | | | X | X | | X | X |
| | | | | | | | | | | | | X | X |
| Area Size < 300 m² | | X | X | X | X | | X | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Area Size > 300 m² | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

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