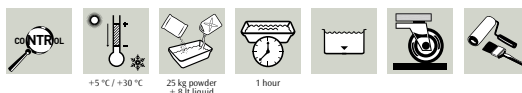




Two component, cement based, elastic, waterproofing material



- *High adhesion strength,*
- *Elastic,*
- *Crack bridging,*
- *Resistant to frost and moisture ,*
- *Resistant to thermal shocks,*
- *Non corrosive, non-toxic.*

DESCRIPTION

• Two component, cement based, elastic, waterproofing material. It is applied over surfaces exposed to water and humidity, particularly suited to application on positive pressure side. It must be over coated with tiles, micro porous paints or coatings.

AREAS OF USE

- Suitable For use in internal and external, vertical and horizontal waterproofing applications,
- Indoors; Wet spaces such as bathrooms, showers, WCs and kitchens for private and public use,
- Outdoors; balcony, terrace, garden pools and cisterns, etc.
- Foundation and curtain concrete walls.

PROPERTIES

Density : 1,25 kg/l (component A) / 1,0 kg/l (component B)
 Density (Mortar) : 1,60 kg/l (A+B)
 Color : Grey (component A) / white (component B)
 Chemical Structure
 Powder component (A): High quality cement, additives providing flexibility and improved adhesion.
 Liquid component (B) : Synthetic resin based latex liquid.

TECHNICAL PERFORMANCE*

Resistance to thermal shocks : -30 °C - +70 °C
 Initial tensile adhesion strength : $\geq 0,5$ MPa
 Tensile adhesion strength after water contact : $\geq 0,5$ MPa
 Tensile adhesion strength after heat ageing : $\geq 0,5$ MPa
 Tensile adhesion strength after freeze-thaw cycles : $\geq 0,5$ MPa
 Crack bridging ability in standard conditions : $\geq 1,00$ mm

*These values have been obtained by laboratory test results and are the performance values of the finished applications 28 days later. According to the differences in construction site, the values may change.

REFERENCE STANDARDS AND APPROVALS

- TS EN 14891

APPLICATION SURFACES

- Suitable for application on cement and gypsum based screeds and plasters, and concrete substrates in interior and exterior floors.

APPLICATION CONDITIONS AND LIMITS

- The mixture is rested for 3 minutes before starting the application and applied after mixing again.

APPLICATION PROPERTIES

Pot life : 1 hour
 Ambient temperature : +5 °C - +35 °C
 Application thickness : 2-3 mm
 Waiting time between layers : min. 6 hours
 (23 °C, 50% relative humidity)
 Set time : min. 6 hours
 (23 °C, 50% relative humidity)

Application of ceramics time to wait: min 2 days.

Mechanical strength : 2 days.
 Full drying time : min 48 hours.
 Setting time for waterproofing : 7 days.

SURFACE PREPARATION

- The application surface should be clean and clear of any dirt, dust, grease or any contaminating barrier and weak particles.
- Ensure that substrate is mature, sound, stable and smooth, and not too dry or wet.
- Subsequently hardened or polished surfaces and laitance (concrete and etc.) must be removed by scabbling.
- Before starting the waterproofing application, **CERMIFILM** primer should be applied to the surface in order to balance the absorbency of the surface and increase the adherence. Minimum 3 hours should be waited for the primer to dry..
- Impervious surfaces should be primed with **CERMIFILM PLUS** before waterproofing.
- The surface temperature should be lowered by moistening with water sprinkling method before applying on the surfaces exposed to direct sunlight.
- **CERMIPROOF FF** is not a leveling material. The deepest point of the application surface in 2 m long gauge should not exceed 2 mm. For larger deviations, the surface should be smoothened with either **CERMIMORTAR 3-20** or **CERMIFLOOR 4-30**.

MIXING

- Gradually add 25 kg of powder component A to 8 lt of liquid component B.

APPLICATION DETAILS

- The mixture is mixed until it becomes homogeneous.
- It is recommended to use a low cycled electrical drill mixer (400 rpm) for mixing.
- The paste should rest for 3 minutes prior to application and should be applied after remixing.
- **CERMIPROOF FF** is applied over the surface using a stiff brush or a paint roller at a minimum rate of 1,5 kg/m² (corresponding a coat thickness of 1 mm).
- It should be applied over the surface spreading out evenly and ensuring full overlap between each brush or roller application.
- 2 coats of application are recommended, ensuring a total thickness of 2-3 mm at minimum. The second coat should be applied as soon as the first coat has dried (reached initial set of 6 hours). 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).
- Reinforcement with flexible tape or alkali resistant reinforcement mesh should be applied in order to prevent any water leakages at cold joints (internal corners). 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.
- Following application must be done at least 48 hours later after waterproofing material has set.



PRECAUTIONS

- Mixing ratios of components A and B are indicated on the packaging, they should not be mixed at another rate.
- If the product hardens after opening the packages, the product should not be used.
- Do not add water into the mixture once the mixture is prepared.
- Do not apply directly onto the existing ceramic tiles and metal, plastic, PVC, wooden, aerated concrete, precast-concrete, under floor heated and painted surfaces. Please consult technical service for solutions.
- No application should be made on plastered and concrete surfaces that have not set, before the curing period of minimum 6 weeks has been completed. After applying cement based products, it should be cured with a suitable method to prevent water loss.
- Do not apply onto surface with high humidity.
- On terraces, wet areas and similar areas there should be an incline of 3% on the floor along the direction of drain.
- The working time of **CERMIPROOF FF** is shortened under unfavorable ambient conditions (high temperature, dry air and strong wind). In low temperature and high humidity conditions, time may be longer.
- **CERMIPROOF FF** is a waterproofing material developed for undercoating applications. It should not be left open, it must be covered with a suitable coating material.
- Water-proofed areas must be protected for at least 24 hours from direct sunlight, frost and rain.
- Expansion joints should be incorporated to allow for slight movements due to changes in temperature, humidity and thermal and mechanical loads formed on the surface and substrate. Expansion joints should be provided considering heat transmitting systems and insulation applications, floors exposed to heavy traffic and pedestrian loads, wideness of the area, where tiling meets other materials, along all internal corners, existing movement joints or changes in background material. Large tiled areas must be divided into bays (every 4 to 8 m due to tile sizes and type). Expansion joints should be insulated by using proper profiles or mastics.
- In application, the surface should be fully bundled. Bundling is not complete and if there are interruptions and joints in insulation application, these details may cause water leakage.
- In order to increase the resistance on the surfaces that will be exposed to

water pressure, waterproofing application can be done with reinforcement (alkali resistant reinforcement mesh, etc.). After the first coat is applied, the reinforcement is embedded in the first coat when it is still wet. After the first layer dries, the second layer is applied.

- The surface should not be exposed to direct sunlight after application.
- Please contact our technical service for different applications.

CONSUMPTION

- The approximate coverage amount may vary depending on the application surface: For 1 mm thickness of coating 1,5 kg/m²

PACKAGING

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

STORAGE AND SHELL LIFE

- 12 Months in original, unopened packaging.
- Store in a dry area between +5 °C and +30 °C.
- Protect from direct sunlight and moisture.

HEALTH AND SAFETY PRECAUTIONS

- Users should refer to the product safety data sheet (MSDS), for safe storage, transportation and dispose of chemical products, where chemical, physical, ecological, toxicological, and other safety-related information.

Note: The initial controls of our product are made during the production phase. We guarantee the stability of our products' quality. All recommendations and instructions on the technical sheet are generally based on our experience. Please contact us for applications on special surfaces not mentioned in the technical sheet. Our company reserves the right to update the information on the technical sheet in the case of technical necessities without prior notice. This new catalogue supercedes the previous editions.

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