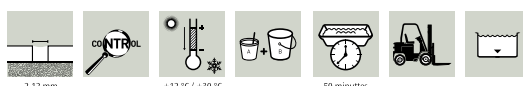




Epoxy resin based grouting material



- *Reliable and hygienic for industrial facilities, food factories and olympic pools,*
- *Particularly suitable for areas requiring high mechanical and chemical resistance,*
- *High flexibility and resistance to frost, moisture and thermal shocks,*
- *Resistant to outdoor weather conditions,*
- *Prevents bacteria and mould propagation, and provides easy cleaning even with cold water,*
- *Environmentally friendly due to solvent free formula.*

DESCRIPTION

• Epoxy resin based two component high performance grouting material with improved chemical and mechanical resistance for joints 2-10 mm of any tile format. It has a minimized shrinkage value, thus crack free. Dirt-free, hygienic and easy to clean.

AREAS OF USE

• Suitable for use in internal and external areas, vertical and horizontal grouting applications. Ideal for pools, terraces and wet areas with its impermeable and crackless form. Particularly suitable for areas requiring high chemical (to alkalies and acids) and mechanical resistance like industrial facilities, food factories, professional kitchens, laundries, laboratories, olympic pools, water tanks and vehicle service stations. It is recommended for hospital as it provides hygiene.

FEATURES

Material content:

- component (A) : Epoxy resin

- component (B) : Hardener

Type : Paste (component A) + Liquid (component B)

Color : Gri / white / beige / anthracite

Density : 1,6 gr/cm³

APPLICATION PROPERTIES

Pot life : 50 minutes at +20 °C, 40 minutes at +30 °C

Grouting temperature: +12 °C - +30 °C

Joint width : 2-10 mm

Grouting time : as instructed on the adhesive technical sheet.

Set time : minimum 24 hours (for light pedestrian traffic)

Final set time : 7 days (23 °C, 50% relative humidity)

TECHNICAL PERFORMANCE

Water absorption (after 240 minutes) : ≤ 0,1 gr

Resistance to moisture : excellent

Resistance to alkalies : excellent

Resistance to acids : excellent

Temperature resistance : -20 °C - +80 °C

Bending strength : ≥ 30 MPa (N/mm²)

Bending strength (freeze-thaw cycle) : ≥ 30 MPa (N/mm²)

Compressive strength : ≥ 45 MPa (N/mm²)

Compressive strength (freeze-thaw cycle): ≥ 45 MPa (N/mm²)

Abrasion strength : ≤ 250 mm³

Shrinkage : ≤ 1,5 mm/m

REFERENCE STANDARD

- TS EN 13888 / RG class.

SURFACE PREPARATION

- Grouting should start after the adhesive has set and dried.
- The joints and tile surface must be clean in order to ensure the grouting material bonds properly. Surfaces should be clean and free from dust, dirt, grease or any other contaminating barrier.

- Ensure that the tiles are firm.

- The surfaces exposed to direct sunlight and have a surface temperature above +30 °C must be cooled by damping.

MIXING

- The ideal ambient temperature for application is +20 °C. At lower temperatures warming, where at higher temperatures cooling the components to +20 °C is recommended for a convenient application.

- Gradually add the entire hardener component (component B) to the epoxy resin component (component A), and mix to a smooth and homogenous paste with a uniform colour for at least 3 minutes. 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 more or less of the components than specified to get a fluid form or extend pot life (working time). Do not add water.

APPLICATION CONDITIONS

- Fill the grouting material 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 grouting material 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.

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

- Time for cleaning the excess grouting material from tile surface is when the grout has started to dry. Time is 40 minutes at +20 °C, but duration may vary due to ambient temperature (longer in lower temperatures, shorter at higher temperatures). Exact time to start cleaning may be determined by touching the grouting material. When the material slightly gets on the finger, cleaning phase should start immediately.

- The remaining joint filler on the surface should be cleaned with a warm or cold water sponge. Add **CERMINET** to the cleaning water at the ratio of 1:5 (by volume) for a easier cleaning. 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. Continue wiping the tiles until all residues are moved. Final cleaning and rinsing should be done with a damp sponge. If any stickiness is felt when touched on the tile surface, repeat final cleaning. The tiles should be wiped and polished with a clean and dry cloth in circular motion. Use only clean and non-chalky water to dampen the pads and sponge.

PRECAUTIONS

- If any roundish and lump or hard particles are observed in a new opened package, do not use the product.
- Do not add any water or solvents into the components or mixture.



- When preparing the product in small quantities, conform to the mixing rate of the components.
- Test the grout on a spare tile before grouting against surface staining. Surface staining is possible for porous textured, matt or glazed tiles. Tiles with surfaces having shallow depressions would fill with grout. It is recommended to treat tiles with an appropriate protective sealer for a convenient application.
- Be particular about tiles with soft surface which can be scratched during grouting.
- Minimum 7 days of set time should be waited to fill in the pools after grouting.
- For **CERMIJOINT EPOSOL PRO**, pot life and waiting time for initial cleaning are 50 minutes and 40 minutes at +20 °C, respectively. Durations will be shortened for applications at higher ambient temperatures. On this account, wetness of the grouting material should be tested by touching in case of early setting. Durations may extend in lower temperatures.
- Minimum application thickness of the grouting should be at least 3 mm. It would be difficult to fill in thinner joints completely, that would cause the grout to be weak.
- 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. Epoxy grouting material is not appropriate for expansion joints.
- Grouted surfaces must be protected for at least 24 hours from direct sunlight, frost and rain.
- Epoxy grouting material is impermeable, but is not produced for water-proofing purposes. Before tiling and grouting wet areas (bathroom, shower, etc.), it is recommended to apply waterproofing first (**CERMICRYL**, **CERMIPROOF SF** or **CERMIPROOF FF**).
- Surface discolouration and variation is a possible natural reaction of epoxy resin based grouting material when grout is directly exposed to outdoor conditions and UV lights or strong acids contact for long durations. This situation will cause no weakness in technical performance.
- Unglazed tiles are recommended to be grouted with same coloured epoxy grouting materials.
- Terracotta tiles are not recommended with epoxy grouting materials as cleaning will be problematic.

SPECIAL CONDITIONS

- Acid or alkali effects on the floor must be checked prior to the applications on industrial floors. Effect level caused by common chemicals should be checked on the chemical resistance table. Please refer to the technical service particularly before any application in milk or dairy product facilities.

COVERAGE

- The approximate coverage amount (kg/m²) may vary depending on the tile sizes, tile thickness and joint width. The formula below is theoretical; 10% possible waste arising during application should be added to the calculated coverage.

$$\text{Grout Coverage (kg/m}^2\text{)} = (A+B) \times C \times D \times E / (A \times B)$$

- A: Tile length (mm)
- B: Tile width (mm)
- C: Tile thickness (mm)
- D: Joint width (mm)
- E: Coefficient of density (1,4)

Tiles sizes	Thickness (mm)	Joint width (mm)	*Coverage (kg/m ²)
10x10 cm	6	3	0,680
33x33 cm	8	4	0,360
20x20 cm	7	3	0,390
25x33 cm	8	3	0,310
20x25 cm	7	4	0,460
30x30 cm	7	3	0,260

*The amount of sample consumption.

PACKAGING

- Metal cans of 5 kg (96 cans / 480 kg on a pallet)

STORAGE AND SHELL LIFE

- When stored unopened in a cool, dry place at temperatures above 12 °C, shelf life is 12 months from date of manufacture. Production date and charge number is displayed on the packaging.
- The products should not be stored in damped or submerged warehouses. At maximum 4 cans should be overlaid for storage.
- When not used, opened packages should be closed tightly to avoid air contact.
- When stored at temperatures below +12 °C, the components may crystallize making the application difficult. In this case, keep the product at temperatures 20 - 23 °C for at least 2 days. This will help crystallization to dissolve and the product to regain the homogenous form.

HEALTH AND SAFETY

- Irritating to eyes and skin due to epoxy resin and amine content. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water.
- Wear suitable protective clothing, gloves and eyes/face protection.
- The product should not be inhaled, vaporized material is harmful. Mask should be used if necessary, and application area should be ventilated.
- Keep the product out of the reach of children.

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.