

# 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 ( $\text{gr/m}^2$ )

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  $12^\circ\text{C}$  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

**CERMIX**

Date of Revision : 05/09/2023

Revision Number : 01

## CERMIJOINT EPOSOL PRO

## 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.

**CERMIX**

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