



MEGAPOXY D501

Epoxy resin based, double compound antibacterial ceramic adhesive and joint filler, which can be applied to joints, ranging between 3 - 15 mm, is resistant to acids and alkalis, has strong mechanical resistance and is suitable for contact with drinking water.

SKU: N/A

PRODUCT DESCRIPTION

Product Advantages

When used as adhesive;

- High bending and compressive strengths.
- Excellently bonds to the application surface and the coating.
- Once applied, the product gains high adherence and strength. The product is highly resistant to dynamic loads.
- Does not cause slippage in the case of vertical applications.
- Solvent free and is environmentally friendly.

When used as joint filler;

- Prevents bacterial, mould, fungal and algae formation thanks to its antibacterial effect.
- Hygienic and impermeable, does not hold bacteria and has high chemical resistance.
- Highly resistant to chemicals.
- Fit for contact with drinking water.
- High performance product, and is cured without contraction and cleavage.

- Poses reduced water absorption and high abrasion resistance thanks to the special additives in its content.
 - Resistant to water, frost and high temperature.
 - Solvent free and is environmentally friendly.
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Usage Areas

- MegaEpoxy is used for the adhesion of antacid ceramic, industrial ceramic, granite, glass mosaic, glass brick and marble horizontally and vertically and the filling of horizontal and vertical joint gaps, ranging between 3 - 15 mm, in indoors and outdoors spaces on such floors with floor heating, where extremely high temperature changes occur, and in such spaces, where chemical resistance, impermeability and high mechanical resistance are required and dry wall systems.

MegaEpoxy is fit for use in miscellaneous wet spaces and hygienic environments such as the food industry, milk, cheese and yogurt manufacturing shops, slaughter houses, dairy farms, integrated meat plants, wine distilleries and breweries, bottling and filling facilities, industrial kitchens, hospitals and laboratories, pharmaceutical and cosmetics industry, swimming pools containing salt and thermal water and waste water treatment plants.

Technical Informations

- **Performance**High abrasion resistance $\leq 250 \text{ mm}^3$ TS EN 12808 - 2
Bending strength after dry storage $\geq 30 \text{ N/mm}^2$ TS EN 12808 - 3
Compression strength after dry storage $\geq 45 \text{ N/mm}^2$ TS EN 12808 - 3
Contraction $\leq 1.5 \text{ mm/m}$ TS EN 12808 - 4
Reduced water absorption after 240 minutes $\leq 0.1 \text{ gr}$ TS EN 12808 - 5
Slippage $< 0,5 \text{ mm}$ TS EN 12004-2 , 8.2

The foregoing values represent the results of the laboratory tests conducted at $23 \pm 2^\circ\text{C}$ temperature and $50\% \pm 5$ relative humidity conditions. The values provided as per the table may vary depending on the surface and ambient conditions.

Application LimitsUseful time for prepared product - Pot life: Maximum 45 minutes
Pre-dry time: Minimum 5 hours
Opening the traffic: Minimum 24 hours

Full curing: Minimum 7 days

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Technical Specificationsa. Chemical Structure: Epoxy resin based, acid and alkali resistant adhesive and joint filling.

b. Mortar Density: $1.80 \pm 0.05 \text{ gr/cm}^3$

c. Grain Size: $\leq 300 \mu\text{m}$

d. Color: Beige, gray and white

e. Temperature Resistance: -40°C to 80°C

Mixing RatioComponent A (4.650 kg) and component B (0.350 kg) should be thoroughly mixed.

Mixing Period

Mixing with a low speed mixer should be continuously done by slowly adding Component B into Component A and the mortar should, then, be stirred again for 3 to 5 minutes until it gets homogenous.

Mixing Equipment

- Low speed electrical mixer (400 cycles/ min.)
- Special-tip stirring equipment

Application Equipment

- Epoxy joint trowel
- Scraper
- Epoxy cleaning sponge
- Notched trowel of steel

Equipment Cleaning

- The equipment used should be cleaned with water following the application before the mortar dries.
- The dried epoxy can be cleaned mechanically. In order for easy mechanical cleaning of epoxy, the contaminated tools may be kept within such solvents as thinner, acetone or toluene for 1 to 2 hours, which would soften the epoxy.

PackagingMegaEpoxy is delivered as a set in net 5 kg plastic buckets.(Compound A: 4.650 kg, Compound B: 0.350 kg)

Reference Standardsa. **Certifications / Standards**

- TS EN 13888

b. Ministry of Public Works and Settlement Item No.

- Ministry of Public Works and Settlement Item No.: 100.300.2233

Quality Certificates

- TSE /RG
- Conformant to TS EN 12004 / R2T
- G

Application Procedure

▪ **Application Surfaces**

Indoors and Outdoors Walls;

- Ceramic
- Natural stone
 - Marble
 - Granite
- Glass mosaic
- Glass brick
- Cement based plaster
 - Concrete
 - Metal

Indoors and Outdoors Floors;

- Ceramic
- Natural stone
 - Marble
 - Granite
- Glass mosaic
- Glass brick
- Cement based trowel coating
 - Concrete
 - Metal

Surface Preparation :

- The application surface should be dry, clean, sound and dust free, and should have been cleansed of oil, dirt or any materials that may prevent adhesion, and any such materials as mortar and cement residues should be scraped from the application

surface.

- It should be made sure that the joint gaps are dry and clean prior to joint filling application.
- Coating surface and joint gaps should have been cleaned and cleansed of oil, dirt and dust.
 - The concrete surfaces should have completed the 28 day curing period. The surface humidity should not exceed 5 % during the application.
 - Expansion joints should be formed as necessary with due consideration of the movements, which may occur on the floor especially in extensive spaces and in such environments, where heat sources exist, on account of thermal and mechanical causes. Such joints should be sealed with Megaizo PU Mastik LM or Megaizo PU Mastik HM.
- Any surface defects deeper than 2 cm should be repaired with MegaTamir Epo 24 hours in advance of adhesive mortar application.
 - In the case of wet space applications, waterproofing should be ensured with Megalzo Lastik 10 on the surface, which should have been coated with the recommended primer, prior to ceramic flooring.

Application Methods :

- In the cases, where MegaEpoxy is to be used as adhesive; the material should, subsequent to stirring, be poured on the surface and be spread as a homogenous layer of 2 to 3 mm thickness. The product should be applied and spread with a notched trowel that is suitable for the ceramic size and the characteristics of the surface.
- In the cases, where MegaEpoxy is to be used as joint filler; the stirred material should be applied only to the joint gaps on the application surface with a suitable epoxy joint trowel. The product should, then, be scraped to ensure that the joints are filled and sealed completely and that the surface is free from any residue.
 - The cleaning should be made with water and wet sponge.
 - Joint filling may be initiated minimum 24 hours after the adhesion.
- In some cases, a secondary application may be necessary to fill the joints, which have not been thoroughly filled and pose low levels. In such cases, the secondary application is recommended to be performed within maximum 5 to 6 hours in order to ensure inter coat adhesion.

Application Recommendations :

- In the case of the applications at temperatures lower than +10° C; the product should be kept in a warm environment minimum one day prior to the application in

order to ensure easy application, and it should be made sure that the product is at room temperature during the application.

- The product may pose increased thickening in cold weather conditions. In such cases, the normal thickness of the product may be restored by being moved to a warm environment or bathed in hot water (having the materials kept in a container filled with hot water prior to mixing).
- The product should, once mixed, be used before the expiration of its pot life. Any product, the pot life of which has expired, should not be used during the application. Epoxy based products have limited pot lives; therefore, due consideration should be given to the fact that the pot life and dry times would shorten at high temperatures and lengthen at low temperatures.
- Any such foreign substance as lime, cement or plaster should not be added to the product, which prepared with two compounds.
- For closed area applications, the environment must be well ventilated and should not remain in closed areas for extended periods of time.
- The product should not be applied on unsound surfaces. The soundness and the load bearing capacity of old surfaces should be checked prior to adhesion.
- The surface should be preserved from air currents and water contact during and after the application.
- The product should not be applied to such surfaces, which are exposed to risk of freezing within the next 24 hours, which are frozen or the frost of which is thawing.
 - Due care should be taken to ensure that the material is not exposed to direct sunlight in hot weather conditions.
- The product should not be applied on extremely windy weather conditions or on hot surfaces, which are exposed to direct sunlight; and in the cases, where application is imperative under such conditions, the environment and the surface should be prepared for application in advance.
- The product should not be applied in rainy weather conditions, and the application surface should be preserved from rain for a period of 24 hours.
 - For various surface applications and for uses with the chemicals not specified in Chemical Resistance Table, please contact our technical support hotline (PHONE: 444 4 595).

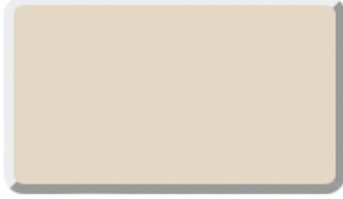
Surface and Ambient Temperature

- The surface and ambient temperature should be between +10° C and +30°C whilst at application.
- The surface temperature should be minimum +3°C higher than the related dew

point temperature.

- The product should not be applied under such conditions, where the ambient temperature is lower than +10°C and the relative humidity is higher than 75%.

Color Options



ADDITIONAL INFORMATION

