

Tile and Ceramic Adhesives / Epoxy Based Adhesives**REPOX[®] 100****Epoxy Based Marble and Granite Adhesive R2TE****DESCRIPTION**

Epoxy resin based, double component, easy-to-apply, ready-to-use epoxy adhesive mortar with **extended open time** and **reduced slip**, and high bonding strength. Resistant to **chemicals** and **bacteria**, can be cleaned with water.

APPLICATION AREAS

- Indoor and outdoor
- Horizontal and vertical applications
- Hospitals and all kinds of hygienic environments
- Swimming pools, thermal pools and wet areas
- Cheese, milk, wine, meat, fish and similar food industries
- Medicine, dyestuff, paper, accumulator and fertilizer industries
- Printing house, laundries, industrial kitchens and dining halls
- Places exposed to heavy pedestrian traffic such as shopping malls, terminals
- Floor heating systems
- Waste water and treatment facilities
- Bonding materials such as ceramic, tiles, marble, granite, ceramic resistant to acids, porcelain ceramic, glass mosaic and glass brick to be used in places listed above, on surfaces such as concrete, plaster and metals.

TECHNICAL PROPERTIES

Components	A: Epoxy resin, B: Hardener
Color	Grey
Mixture Ratio	A: 5 kg, B: 0.20 kg
Mixture Density	~ 1.70 kg/L
Shear Adhesion Strength	≥ 2 N/mm ² (EN 12003)
Extended Open Time Tensile Adhesion Strength	After min. 30 minutes ≥ 0.5 N/mm ² (EN 1346)
Slip	≤ 0.5 mm (EN 1308)
Application Temperature	Between +10°C and +20°C
Time to Use the Mixture	~ 45 minutes
Time to Open to Traffic	7 days
Service Temperature	Dry Ambient: -20°C / +80°C, Wet Ambient: -20°C / +50°C

ADVANTAGES

- Does not cause mould and fungus formation
- Has high mechanical strength
- Resistant to oil, chemicals, acids, alkalines, chemicals and residential waste water
- Not affected by sudden temperature changes. Resistant to freeze-thaw cycle
- Does not have harmful effect on potable water.

CONSUMPTION

1.70 kg/m² (for 1 mm thickness)

PACKAGING

Sets of 5.20 kg (A+B) tin cans

APPLICATION

PREPARATION OF THE SURFACE

- If the application surface is concrete or plaster, it must be cured, and if it is metal, it must be clear from rust and oil.
- The surface must be clear of materials that prevent bonding, such as dust, oil, tar, paint, silicone, curing materials, detergents and mold oils.
- The surface must be dry, sound and level, with a surface moisture content of less than 4%.

MIXTURE

- REPOX 100 is packaged as two components in appropriate amounts. Add 0.20 kg of component B (hardener) in 5 kg component A (epoxy resin) and mix with a 400 – 600 rpm mixer at least for 3 minutes. Component B (hardener) is in the package of component A (epoxy resin).
- The components are packaged in the correct mixing ratio. This ratio should be observed if part of the product is to be used.

APPLICATION

- In principle, REPOX 100 is applied like cement-based ceramic adhesives.
- Apply REPOX 100 with a suitable toothed trowel selected according to the size of the ceramic to be bonded, in a thickness of 2 mm. Use a minimum 4 mm toothed comb.
- Form a contact layer by pressing the surface where heavy loads will be applied with the flat side of the trowel and add epoxy mixture immediately for the application of the notched trowel, pull it with a comb and bond the ceramics
- Do not adhere on the product that has started to dry.
- Start the joint filling after 1 day. Use **REPOX 200 Epoxy Based Tile Grout** in joint filling application.

CAUTION

- Avoid application at temperatures below +10°C and above +20°C.
- Mix REPOX 100 with a suitable mixing drill. Never mix by hand or with a trowel.
- Mix the components of REPOX 100 in the correct proportions. Do not add water, solvent etc. to the mixture.
- Working and hardening times of epoxy resin based products depend on ambient and ground temperature. Since viscosity increases at low temperatures, the consumption amount also increases. The chemical reaction slows down and therefore the pot life and the operating time is extended. The opposite is true at high temperatures.
- Avoid application in areas that are frozen, at risk of freezing within 24 hours, or in areas open to direct sun and wind.
- Prevent contact for at least 24 hours after the application, avoid contact with water for 48 hours.

SHELF LIFE

Expires in 12 months. Store unopened packages in a cool and dry environment between +10°C and +30°C. Prevent against freezing.

HEALTH AND SAFETY

As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. In case of contact with skin, rinse with water. Consult a doctor if accidentally swallowed. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Do not bring food and beverage into the application areas. Do not approach storage and application areas with fire. Application areas must be ventilated. Store out of the reach of children.



Technical Data Sheet (TDS)

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The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Yapı Chemicals San. Trade Ltd. Sti. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.

