


DESCRIPTION

RI-Poxy is a 3- pack tile grout based on epoxy resins, hardener & fillers. RI-Poxy tile grout is solvent free, chemical resistant coloured epoxy grouts for ceramic tiles, vitrified tiles, marble and other stone. It is a three-component grout, ideally suited for residential and commercial installations. It effectively fills the gaps & levels itself to give a hardwearing, water proof and dust proof tile joints.

COMPOSITION	▪ 3 Components (Resin, Hardener & Filler)
COLOUR	▪ Available in 22 shades
PRODUCT FEATURES	<ul style="list-style-type: none"> ▪ Easy to mix and apply. ▪ Becomes strong after dry. ▪ Provides hygienic, hard wearing, and impervious properties. ▪ Easy to clean ▪ Non-toxic and restrict entry of bacteria/ dirt.
RECOMMENDED USES	▪ Tile epoxy tile grout is recommended for shopping malls and Showrooms, Food and Breweries Processing units, Chemical plants, Hotel kitchens & Bathrooms, Swimming pools, Sport centres, Residential and commercial buildings and all kind of construction.

TECHNICAL ANALYSIS

Nature	Epoxy 3 component tile grout
Mixing ratio by weight / Kg	Resin: Hardener: Filler = 180 gm: 100 gm: 720 gm
Pot life @27°± 2 C	30 – 40 minutes
Setting Time	24 hours @ 30°
Foot traffic	24 hours
Heavy Traffic	72 hours
Compressive strength kg/sq2.cm, min.	700
Adhesion strength kg/sq2.cm, minimum	30 (Concrete failure)
Tensile strength Kg/Sq2.cm, minimum	100
Shrinkage	Negligible

GUIDANCE FOR USE

SURFACE PREPARATION

- Before starting to pour grout into gaps, remove debris and dust from tile gaps. It can be removed by compressed air jetting.
- Remove dirt and dust from tile surface by cleaning with sponge. Do not clean the tiles with acids.
- The prerequisites for good adhesion of the grouts are cleanliness and roughness of surface.
- Unless these are ensured by proper surface preparation a successful performance cannot be guaranteed.
- Substrate temperature must be between 16°c and 32°c.

MIXING (Preparation of mortar)

- Mortar is prepared by mixing the Resin, Hardener, and Filler in the given ratio.
- Empty the entire contents of Resin and Hardener into a clean vessel and mix thoroughly till both the liquid are completely blended.
- Add filler to above blended material and mix till a lump free uniform paste obtained. Mix the filler to the extent to make stiff paste to work into the gap and joints.

APPLICATION

- Press the grout firmly by using a hard rubber squeeze, into joint ensuring that the joint is completely filled.
- Use standard epoxy grouting techniques to work the tile grout in the tile joints.
- Ensure that the entire joint is packed fully with the material. Remove the excess grout material from joints and surface by moving the squeeze diagonally to the grout lines.

CLEANING

- Wipe the strains on the tiles with RI-Tile Cleaner, when the grout is partially set.
- Using sponge, clean off the grout from tile within 45 minutes before it dries.
- After completion of work, clean the grout haze from the tile with clean water or soap solution.
- Tools and containers should be cleaned using epoxy thinner when the grout is still fresh.

MAINTENANCE

- Epoxy tile grout is required routine cleaning with a neutral PH soap and water.
- Do sample test to check for possible staining for highly absorbent natural stones / marbles which may form a wet or coloured patch when tile grout is applied.
- Please take advised proportion (mentioned on the product) of all components (Resin, Hardener & Filler). Any change in proportion would not give desired product performance.
- Do not apply on wet or damp tile joints. Always apply on completely dry tile joints.
- Do not over-mix the material. Over-mixing can reduce the pot life.
- Apply masking tapes along tile joints while working on unglazed floor tiles, porous tiles & natural stones, tiles with matt glaze or textured surfaces.
- While cleaning, change thinner frequently. Change cleaning cloth/sponge when they are impregnated with grout.
- Protect from direct rainfall & foot traffic for at least 24 hours.
- Do not use acid to clean joints.

COVERAGE

- Consumption of epoxy grout is dependent on the substrate, surface profile, roughness, size of the tiles, the joints between them and wastage during application.
- Coverage of Epoxy Grout can be calculated theoretically through the following formula:

$$\text{Coverage(kg/m}^2\text{)} = \frac{[\text{Mix Density} \times \text{Tile thickness} \times \text{Joint width}] \times [(\text{Tile length} + \text{Tile width}) / (\text{Tile length} \times \text{Tile width})]}{1}$$

*Mix Density = 1.69 gm/cc

Dimension of Tile (mm)			Joint Width/Joint Gap (mm)		
Length	Width	Thickness/Height	2	6	12
100	100	3	0.21	0.61	1.22
200	300	6	0.17	0.51	1.05
450	600	10	0.13	0.39	0.79
600	600	8	0.09	0.27	0.54
1800	1200	2	0.06	0.17	0.34

Note: The values mentioned in table are indicative & can be used for calculating approximate consumption of the material.

PACKING

- Available in 1 kg & 5 kg pack.

STORAGE & SHELF LIFE

- 18 Months in original sealed packing when stored in cool & dry place. Store away from direct sunlight, moisture, and high humidity.

HEALTH & SAFETY INFORMATION

- Avoid contact with skin and eye. Any contact to the skin or eyes should be washed off with clean water.
- Wear mask while mixing.
- Wear protective clothing, gloves and eye protection when applied.
- Keep out of reach of children.

For more information or support or guidance, please consult our technical expert at:

RI-Bond Chem LLP

D-508, Ganesh Meridian, SG Highway, Opp. Kargil Petrol Pump, Ahmedabad (Gujarat)-380060

www.ribondchem.com | sales.support@ribondchem.com | 18003092858

Disclaimer: Technical information is based on knowledge and experience of accurate results. These results refer to the long-term application of the product in practice. Recommendations and suggestions are listed for guidance only. Since site conditions during the applications are beyond the manufacturer's control, hence it is also the responsibility of the end-user to ensure that the content in their possession is the latest case.