



#### DESCRIPTION

RI- Polymer Tile Grout is a water-resistant grout for filling joints of tiles. It is premix with white cement, graded sand, fortifiers and coloured pigments. It is specifically designed for tile joints between ceramic tiles, vitrified tiles and stone. It is available in different colours. It is suitable for use in tropical and hot climatic conditions. Addition of recommended quantity of water into RI Polymer Tile Grout makes a smooth and creamy paste which resists water after setting.

#### CHARACTERISTICS

- Reduced water absorption.
- Abrasion resistance.
- Ideally smooth, Easy to apply.
- Extremely durable colours.
- Weather resistance.
- Non cracking, non-shrinkable.
- Suitable for interior and exterior use.
- For tile and stone joints

#### SCOPE OF USE

RI-POLYMER TILE GROUT is used for grouting tiles and natural stones (non-sensitive to discoloration) on non-deformable substrates indoors and outdoors. Can be used in all domestic areas, e.g. bathrooms, kitchens, etc. Can be used for internal and external tiling in dry and wet locations, including swimming pool with non-aggressive water conditions. Designed for floor and wall joints of

all types of ceramic, vitrified, semi vitrified tiles, glass mosaic tiles, terrazzo, engineered stone floors and natural stones

### SUBSTRATE PREPARATION

The tile edges and surface, should be free from dirt. Start grouting only when the tile adhesive is sufficiently set and dried.

For grouting tiles, susceptible to colour change (natural stones), we recommend doing tests before implementing to entire floor to check that RI Polymer Tile Grout does not leave permanent marks on the tile surface or edges.

### APPLICATION

RI Polymer Tile Grout should be poured into the measured amount of clean water and mixed until a homogenous mass without any lumps is reached. Wait 3 minutes (maturing time) before second mixing. Do not use rusty or dirty equipment or tools. Apply the grout with a grouting float, completely filling the joint. Allow sufficient time for the grout to set in the joints before starting to clean (finger test). This time can vary from 5 to more than 30 minutes and depends on the tile absorption properties, joint width and depth, as well as ambient and substrate temperature. After initial drying, the surplus of material should be removed with a clean, semi-dry sponge. When cleaning please do not use a dry cloth as this may cause a risk of discoloration by rubbing dried grout mortar into the damp grout. Washing the tiles, a second time with clean water on the next day supports a homogenous surface and mineral hydration (second rewetting). Tiles can be walked on after 24 hours from the application. Grout can be exposed to water after 24 hours. Within the first 5 days after the application, only clean water without any cleaning agents should be used. Grout reaches its complete properties after the 7 days of application.

### PLEASE NOTE

- Work should be done in dry conditions at an air and surface temperature from +5°C to +35°C.
- Excessive wiping of the joints can expose the aggregate and make the joint surface rough. Too high amount of water used in mixing causes cracking and lowers the grout's strength.
- Any dampened substrate, inadequate water dosing as well as different drying conditions may cause discoloration. Do not use cleaning agents in vivid colours. The actual shade of the joint may differ from the colour of the sticker on the package.
- Grouts freshly applied outside should be protected against rain, dew and temperature drops below +5°C until the grout is completely hardened and dried.
- Dispose of hardened product residues as industrial waste similar to household waste or in the container for commercial/construction site waste. Dispose of unhardened product residues as hazardous waste.
- Water tightness and chemical resistance is achieved by applying RI-Poxy grout. Expansion joints between tiles, joints between walls and floors and around sanitary equipment shall be filled with PU or Silicone sealant.
- Please use a semi-wet sponge for cleaning the tile surfacing in order to avoid discoloration and shading

## PRODUCT SAFETY

RI Polymer Tile Grout powder is an irritant, and the cement content sets off an alkaline reaction with moisture. Therefore, protect your eyes and skin. In case of eye contact, rinse eyes thoroughly with water and consult a doctor. Only recycle totally empty packages.

## GENERAL DATA

1. Base : Mixture of cements with mineral fillers and polymer modifying agents
2. Appearance : Lumps free powder
3. Water : Powder Ratio: 330-340 ml water for 1 Kg of RI Polymer Tile Grout
4. Colours : 22 Colours
5. Pack size : 1 Kg Pouch

## TECHNICAL DATA

- Density (g/ml) : 1
- Pot life : Approx. 1 hour
- Abrasion resistance :  $\leq 2000 \text{ mm}^2$
- Compressive strength under standard condition :  $\geq 15 \text{ N/mm}^2$
- Flexural strength under standard conditions :  $\geq 2.5 \text{ N/mm}^2$
- Flexural strength under freeze-thaw cycles :  $\geq 2.5 \text{ N/mm}^2$
- Shrinkage :  $\leq 3 \text{ mm/m}$
- Water absorption (after 30 min) :  $\leq 5 \text{ g}$
- Water absorption (after 240 min) :  $\leq 30 \text{ g}$
- Tile joint width : 1 to 6 mm
- Application temperature : 5 C to 35 C
- Foot traffic : After 24 hours
- Ready to use : 7 days
- Consumption : Coverage of RI Polymer Grout varies depending on the width of the joints, size and thickness of tiles.
- Shelf life : Until 12 months since the date of manufacturing. stored under dry conditions and original packaging.

**The product complies with the requirement of CG1 WA as per EN 13888 standard**

## CONSUMPTION FORMULA

$$\frac{A+B}{A*B} * C * D * 1.00 = \text{KG/M}^2$$

A\*B

A = Tile Length (mm) B = Tile Width (mm) C = Tile Thickness (mm) D = Tile Joint (mm)

## OTHER INFORMATION

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

### **RI-Bond Chem LLP**

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