



DESCRIPTION

RI 400 is a polymer modified Grey cement-based tile adhesive for Ceramic, Terracotta, Pavers, Semi-Vitreous tile, Vitrified Tile, Glass Mosaic, Natural stone of regular and large format tiles. It is suitable for external applications, dry & wet indoor areas for vertical and horizontal applications. It can be used for Tile-On-Tile applications as well. This tile adhesive is ideal for the tiles with porosity less than 3%. It also confirms extended open time.

STANDARD COMPLIANCE/ SPECIFICATION

RI 400 is Non-Skid Adhesive complies to Type III 'T' as per IS 15477: 2019 - adhesives for use with Ceramic Tiles, Mosaic tiles, Vitrified, Glass Mosaic and Natural stones. RI 400 Adhesive confirms to class C2TES1 as per EN 12004:2017, where cementitious (C) Extra Adhesive (2) slip resistant (T) Extended Open Time (E) Deformable (S1).

CHARACTERISTICS

- C2TES1 compliant with EN 12004 standard
- Type III T as per IS 15477-2019
- For Large and Small Format Tiles
- Suitable for Inside and Outside area
- Application up to 15mm (Mortar Thickness) -
- Can be used for Tile-On-Tile application.
- No Vertical Slip.
- Excellent workability
- Extended Open Time for easy workability.

SCOPE OF USE

- RI 400 Tile Adhesive is certified as C2TES1 (according to EN 12004).
- Designed for Vitrified Tiles, Ceramic tiles (glazed, terracotta), Natural stones, Glass Mosaic over floor and wall at cementitious renders, cementitious screeds and concrete substrate.

Indoor & Outdoor use:

- On horizontal and vertical surfaces.
- Suitable for Wet area.
- Recommended for Elevated Functional Loads in Domestic and Commercial Spaces.
- The mortar's high adherence makes it recommendable to lay tiles on critical substrates (only indoor).
- On Cement and Cement-lime plaster, Cement Screeds, Cement Ground Coats and Concrete.

SUBSTRATE PREPARATION

Adhesive can be applied on even and compact substrates, free of any substances that reduce adherence (grease, bitumen, oil, paint, dust etc.). Concrete should be at least 1 month old. Cement screeds and plasters should be fully cured. Anhydrite (residual moisture below 0.5%) substrates should be mechanically roughened and cleaned from dust. Aerated concrete should be free from dust. Substrates must not be wet. Any existing dirt, loose layers and paint coating shall be mechanically removed. Absorbent substrates shall be dampened and remove excess water before application.

APPLICATION

Pour RI 400 into a container filled with precisely measured amount of clean water and stir with a drill and mixer until a homogeneous mass without lumps is obtained. Leave for 5 minutes and then stir again. Apply the mortar with a suitable notched trowel preferably 6mm X 6mm. Use the proper sized notch trowel, to ensure full bedding in the tile. The back buttering method shall be used for larger tiles and for outdoor applications (ie. additionally, a thin layer of the mortar should be spread on the tile's back side, contact area > 90%). Place the tiles only during the open time of the adhesive. Lay the mortar and press while the mortar is still sticky. Fresh excess mortar can be removed with water, hardened material can only be removed mechanically. Expansion joints, joints at the corners of walls and floor and around sanitary equipment shall be filled with sealants or shall be treated with appropriate treatment. Grouting on the wall can be done after 24 hrs in porous tiles using RI-POLYMER grouts. Floors are set to light traffic after approx. 24 hrs.

PLEASE NOTE

- Applications should be carried out in dry conditions. All data refers to +23°C and R.H. 50%. In different conditions, it should be taken under consideration faster or slower material drying.
- Spread the adhesive only up to areas which can be tiled within the open time mentioned.
- For grouting, it is recommended to use RI-POLYMER Tile Grouts or RI-POXY epoxy grout. In the case of substrates exposed to increased chemical and mechanical aggression, use RI-POXY.
- In the case of laying tiles prone to colour changes, sample tests must be necessarily be carried out in order to check whether the mortar causes no fading / discoloration of the tiles.
- The surface should be protected from air stream during and after the application.
- It should not be applied to the surface having exposure to rains and the applied surface should be protected from rain for minimum 24 hours after application.

PRODUCT SAFETY

Product contains cement, strongly alkaline reaction with moisture, so protect skin and eyes. After contact wash immediately with plenty of water. After eye contact also seek medical advice. It is recommended to use protective gloves and goggles. For further and complete information about the safe use of our product, please refer to the latest version of our Material Safety Data Sheet.

GENERAL DATA

- Colour : Grey / White
- Pack size : 20 Kg. bag.
- Base : Mixture of cement with Mineral fillers and Modifiers.

TECHNICAL DATA

Parameters	Grey
Bulk Density	1.5 - 1.9 g/ml
Mixing Proportion	20% - 30% by weight
Slip Resistance / Vertical Slip (T)	< 0.5 mm
Open Time	>30 minutes
Pot Life	>30 minutes
Maximum Thickness	Up to 15mm
Application Temperature	From +5°C to +35°C
Grouting	After approx. 24 hrs
Adhesive Tensile strength (As Per EN Standard 12004 @ 23°C +/- 2°C):	
Initial Dry condition (after 28 days)	> 1.5 N/mm ²
After Water Immersion	> 1.0 N/mm ²
After Heat Ageing	> 1.0 N/mm ²
After Freeze/Thaw cycles	> 1.0 N/mm ²
Temperature Resistance	From -30°C to +75°C
Shear Adhesion Strength (After 28 Days):	
Dry Condition	> 1.5 N/mm ²
Heat Ageing Condition	> 1.0 N/mm ²
Wet Condition	> 1.0 N/mm ²
Deformability (After 28 Days):	
Deformable Adhesive(S1)	>2.5 mm - < 5.0 mm

- Coverage : 2-3 Sq. ft./1 Kg at 3 mm thickness, using 6mm X 6mm square notched trowel. Consumption may vary depending on the evenness on the substrate, trowel notch size, type of tiles/stone and the application technique.
- Approximate consumption : As a guide 1.2 kg / m² / mm of thickness
- Shelf life : Until 12 months since the date of production when stored in undamaged dry conditions and original packaging.

The product is compliant with the EN 12004 and IS 15477-2019 standard.

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

RI-Bond Chem LLP

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Apart from the information given here it is also important to observe the relevant guidelines, regulations and common standards of various organizations and trade associations. The afore mentioned characteristics are based on practical experience and applied testing. Confirmed properties and possible uses which go beyond those listed in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23° C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions, hardening can be accelerated or delayed and that the product itself is subject to local conditions. The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part or unless there is a case of personal injury or death or a case of liability under the Product Liability Act.

This technical data sheet supersedes all previous editions relevant to this product. Please be aware that this Technical Data Sheet only relates to a product manufactured in the specific relevant production site.