



DESCRIPTION

RI 600 is a high-performance polymer modified Grey / White cement-based tile adhesive for Ceramic, Terracotta, Pavers, Semi-Vitreous tile, Vitrified Tile, Glass Mosaic, Natural stone, Concrete Surfaces, drywall like Cement / Bison / Gypsum / Fibre Boards / Metal, Thermal Insulation Panels of regular and large format tiles. It is suitable for External Applications, Dry & Wet Indoor / Outdoor 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 confirms extended open time, excellent bond strength for fixing large format tiles, natural stones, slim tiles on horizontal & vertical surfaces for indoor and outdoor applications specially on external conditions & substrates subject to deformation/ vibrations.

STANDARD COMPLIANCE/ SPECIFICATION

RI 600 is Non-Skid Adhesive complies to Type IV 'T' as per IS 15477: 2019 - adhesives for use with Ceramic Tiles, Mosaic tiles, Vitrified, Glass Mosaic, Natural stones, Concrete Surfaces, drywall & Thermal Insulation Panels. RI 600 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 IV T as per IS 15477-2019
- Suitable for large and heavy duty vitrified tiles
- Suitable for Inside and Outside area
- Application up to 15mm (Mortar Thickness)
- Suitable for vertical external stone/tile cladding
- Can be used for Tile-On-Tile application.
- No Vertical Slip.
- Excellent workability
- Extended Open Time for easy workability.
- Over water proof and moisture proof layers
- Suitable for difficult substrate like heated floors.

SCOPE OF USE

- RI 600 Tile Adhesive is certified as C2TES1 (according to EN 12004).
- Designed for laying Vitrified Tiles, Cement and Stone Tiles, Large format and Heavy-Duty Tiles, Slim tiles, Glass Mosaics, Natural Stone, Concrete Surfaces & Drywalls on deformable substrate.
- Elastic Connection with substrate allows to carry over shear stresses between Tile and Substrate.
- RI 600 is recommended for fixing any Tiles / Stones on wall, heated floors, dry wall boards, facades, terraces, balconies, swimming pools and technological water tanks (no chemicals).
- It is recommended for tiles with absorption < 0.5% like full vitrified tiles or any natural stone like granite, marble (Italian marble as well) up to any size and for fixing tiles/stones on critical substrates such as existing tiles, gypsum substrates, dry wall boards, anhydrites and cellular concrete.

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.
- 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 600 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.

RI 600 belongs to S1 deformable adhesives as per EN 12004: 2017, but suitable as S2 highly deformable adhesives also. (Please take our technical advice before using as S2 highly deformable characteristics)

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.
- For waterproofing, it is essential to waterproof wet areas with RI-BOND waterproofing products prior to application.
- Ensure to keep tile joints (gap) is kept between subsequent tiles to accommodate thermal expansion and contraction.

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

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

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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.