

TECHNICAL DATA SHEET



RITEBUILD® UTA (Universal Tile Fixing Adhesive)

(Ref. SIPL / TDS / UTA / 0224 / R-04)

❖ Product Description

RITEBUILD® UTA is cementitious, thinset, polymer modified, single component adhesive for multipurpose internal and external applications. It has excellent adhesion property on concrete, plastered surface and various substrates. It is suitable for all size of tiles & medium size stone applications

❖ Special Features

- Modified high polymer based, thinset adhesive
- **IS :15477- 2019**: Classified as **TYPE-3 T** Adhesive
- **EN 12004 / ISO 13007**: Classified as **C2TE** Adhesive
- Suitable for internal and external applications for floor and wall area
- Suitable for all type and size of tiles and medium size of stones
- Superior adhesion for porcelain and vitrified tiles



❖ Application

- Suitable for all size of tiles & medium size of stones fixing
- Suitable for window seal, door-framing and stone fixing
- Suitable for internal and external wall applications.
- Suitable for all type of vitrified tiles and stones
- Maximum 12 mm bed thickness is recommended in case of certain application

❖ Advantages

- Polymer modified, thinset adhesive
- Single component, easy to use, only water to be added
- Excellent adhesion properties and better workability
- Extended open time, non sag formula and self-curing properties
- Dual purpose for floor and walls and internal and external applications
- Excellent water-proofing characteristics
- High shear bond strength
- Suitable for porcelain, vitrified tiles, granite and natural stones

❖ Suitable Substrates

- New and old concrete surfaces
- Cement screed beds
- PCC and IPS flooring
- Cement mortar beds
- All type concrete floors and walls
- Plastered surfaces
- Bricks and AAC Blocks
- Tile-On-Tile applications for internal and external application
- Cement fibre board & Gypsum board (internal application)

❖ Coverage

Ratio - Water : Powder	Trowel Size	Coverage for 20 kg Bag + W
27 : 100	6 mm x 6 mm	57 - 62 Sq ft
27 : 100	12 mm x 12 mm	33 - 36 Sq ft

- Above results are as per standard laboratory conditions
- Coverage may vary depending on trowel notch size, substrate smoothness and absorption

❖ Packing

20 Kg and 40 Kg

❖ Shelf Life

Factory sealed bags are best before 12 months from the date of manufacturing in unopened condition stored in dry area

❖ How to Apply

Surface Preparation

- The surface should be clean and free from dirt, oil or grease before applying the adhesive
- Ensure that the substrate is flat, stable, well adhered, and has a normal absorption
- In case of undulations, correct the local undulation/damage on the substrate at least 48 hours before the application.
- To get flat substrate; prepare mortar using **MYMIX SBR 330 / SBR LATEX** for better performance
- Dampen the wall or floor before application of adhesive. Remove excess water before application
- Clean the back of tile / stone for any dust or loose particles
- The proper preparation of the surface will make the fixing easier and quicker ensuring a better finish
- The surface should be flat with a tolerance of 4 mm over a distance of 2 meters
- It is essential that you waterproof wet areas prior to application
- New concrete is recommended to be 1 month old and completely dried before application

Mixing

- Take 5.0 to 5.6 litres (25 to 28% weight) of cool and clean tap water in a clean mixing bowl or bucket and add 20 kg of RITEBUILD[®] UTA
- Stir properly for 5 minutes by hand or an electric stirrer to get a smooth and homogeneous mixture
- After stirring wait for 5 minutes, Stir once again. Adjust the consistency if necessary
- Ensure that no powder, lumps particle and unmixed material left in the mixture

Application

- Use the proper sized notched trowel to ensure full bedding of the tile
- Now apply the adhesive on the substrate with the flat side of trowel initially, press firmly and spread the adhesive on the substrate. Then, comb the adhesive with notched side of trowel
- To provide full bedding & firm support, apply back buttering on the back side of tile before fixing
- Bed the tiles firmly into the adhesive with a slight sliding and/or twisting action/shear, to ensure a good and uniform contact, fix or adjust the tiles within 15-20 minutes.
- Beat in using a beating block and rubber mallet to imbed tile and adjust level Check regularly to ensure that the back of the tile is in full contact with the adhesive
- Ensure tiles should be laid and adjusted before adhesive grooves get skinning
- If adhesive grooves are skinned over or cured before laying the tiles, remove the adhesive and apply fresh material to fix.
- Occasionally check the adhesive coverage / contact by flip or lifting the tile. It helps to verify proper contact area/ adhesive transfer is achieved to avoid voids

- Ensure adequate gap (grout joint) is kept between subsequent tiles to accommodate for thermal expansion and contraction. Use spacer to get uniform thickness of grout joints
- Carefully remove excess adhesive immediately from the joints
- Allow to cure the adhesive for 24 hrs before grouting

Notes

- Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrates
- Do not cover expansion joints with thin set mortar
- For large format stones on wall application, use **RITEBUILD[®] STA** adhesive
- For tile or stone installations on plywood and wood substrates, **MYMIX - THIXOFLEX PU[™]** is recommended

❖ Grout Recommendations

- Joints can be filled after 24 hour of completion of tiling work
- Based on the applications Ritepoxy ESG-1200, Glitter Star, TR, EIG-2200 and Cementitious grouts (CGU) can be applied which are available in more than 28 colours
- Refer Technical Data sheet of Ritepoxy ESG-1200 and Cementitious Grouts for more detail.

❖ Notes on Application / Limitations

- The tile laying surface should be in good condition
- Do not use on the wet screed. The surface must be fully cured
- Do not use for large format tiles or Stone
- Always add powder to water and never add water to powder
- Do not add excess water than recommended.
- During application, Do not attempt to extend the pot life by adding more water to the mixed adhesive
- Product performance on site varies subject to site conditions & installation procedure followed.
- Do not add any other materials or substances like sand, aggregates, cements etc to the product. It may adversely affect the performance of product
- Do not use for installing glass mosaic or metal tiles. Use RITEBUILD[®] STA or RITEBUILD[®] GTA adhesive to fix glass mosaic tiles.

Technical Data

General Properties

Testing Parameters	Result	Testing Parameters	Result
Mixing Ratio	Approx. 25 - 28% by weight	Density of Mixture	1.80 - 1.90 g/cm ³
Colour	Available in GREY & WHITE	Setting Time	12 - 16 hours
Open Time @ 23 ^o - 27 ^o C	30 - 40 minutes	Trafficable Time	24 hours
Pot Life	3 - 4 hours	Adjustable Time	30 - 35 minutes

Physical Properties

IS : 15477 : 2019 - Classified as TYPE-3 T Adhesive

Property	Specification	Result
Open Time	As per manufacturer	30 - 40 minutes
Tensile adhesion strength Dry condition 28 days	Min. 1.5 N/mm ²	1.50 - 1.60 N/mm ²
Tensile adhesion strength wet condition 28 days (7D+21D)	Min. 1.0 N/mm ²	1.00 - 1.10 N/mm ²
Shear adhesion strength Dry condition 28 days	Min. 1.5 N/mm ²	1.60 - 1.75 N/mm ²
Shear adhesion strength heat ageing condition 28 days (14D+14D)	Min. 1.0 N/mm ²	1.15 - 1.30 N/mm ²
Shear adhesion strength wet condition 28 days (7D+21D)	Min. 1.0 N/mm ²	1.10 - 1.20 N/mm ²
Slip Resistance (T)	≤ 0.50 mm	0.25 - 0.30 mm

EN 12004 - Classified as C2TE Adhesive

Property	Specification	Result
Extended Open Time : Tensile adhesion strength @ 30 minute 28 days as per EN 1346	≥ 0.50 N/mm ²	0.60 - 0.70 N/mm ²
Slip Resistance (T) as per EN 1308	≤ 0.50 mm	0.25 - 0.30 mm
Initial Tensile adhesion strength 28 days as per EN 1348 (clause 8.2)	≥ 1.00 N/mm ²	1.25 - 1.50 N/mm ²
Tensile adhesion strength after water immersion as per EN 1348 (clause 8.3)	≥ 1.00 N/mm ²	1.10 - 1.20 N/mm ²
Tensile adhesion strength after Heat ageing as per EN 1348 (clause 8.4)	≥ 1.00 N/mm ²	1.00 - 1.20 N/mm ²
Tensile adhesion strength after freeze-thaw cycle as per EN 1348 (clause 8.5)	≥ 1.00 N/mm ²	1.20 - 1.40 N/mm ²

ANSI A118.4 ET

Property	Specification	Result
Porcelain mosaic tile shear strength - 7 days	≥200 psi (1.38 Mpa)	225 - 250 psi (1.55 - 1.72 Mpa)
Porcelain mosaic tile shear strength - 7 days water immersion	≥150 psi (1.03 Mpa)	175 - 200 psi (1.21 - 1.38 Mpa)
Porcelain mosaic tile shear strength - 28 days	≥200 psi (1.38 Mpa)	225 - 275 psi (1.55 - 1.90 Mpa)

Note: Specifications are subject to change without notification. The performance properties will depend on field conditions & installation methods

Standards Followed

- IS 15477 : 2019 - Designation **TYPE-3 T** Adhesive
- EN 12004 : 2017 / ISO 13007 - Classification **C2TE** Adhesive
- ANSI A118.4 ET

Precautions

- Keep out of reach of children
- Wear suitable protective cloths, respirator and gloves
- In case of contact with skin / eyes, wash immediately with plenty of water & seek medical help

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