

Highly resilient,
advanced polymer modified
cementitious adhesive for fixing
large format tiles & stones designed
for both interior and exterior applications.



- EN12004:2017 C2 TE
- IS 15477:2019 Type 3 T

PRODUCT BENEFITS

- Designed for interior and exterior applications
- Tile-on-Tile and Wet-on-Wet systems
- Uni-component
- Extended open time
- Absorbs high loads
- Slip resistance
- High tensile strength
- Sustains heat ageing
- High deformation
- Good underwater shear bond
- Shock resistant

APPLICATION AREAS

- Walls
- Floors
- Showers
- Damp areas
- Swimming pools
- Shallow submerged areas
- Tile on tile applications
- Can be used as slurry bond adhesive in wet on wet applications
- Dry areas
- Worktops

PACKAGING SIZE 25 KG

USAGE

Materials

- Marbles
- Ceramic tile, Vitreous, Semi-vitreous tile
- Glass mosaic tiles,
- Precast terrazzo and
- Natural stones

Substrates

- Cementitious screeds
- Lime/cement based mortars or renders
- Gypsum/Cement/ Calcium silicate boards **
- Fiber cement slabs
- Cellular Concrete
- Concrete/ Brick masonry
- Waterproofing and heating systems
- Ceramic/ Vinyl tiles and natural stones

** Contact the board manufacturer's data sheet for any specific recommendations before usage

COVERAGE

Approximately 75 - 80 sqft per 25 kg bag @3mm thickness**

**Coverage will vary depending on type and size of tile and substrate smoothness and evenness.

TECHNICAL DATA

• Form	Powder
• Colors	Grey and white
• Mixing Ratio	30-32 parts Water per 100 parts TSA ST by weight (7.5-8 litres of water every 25kg of TSA- ST)
• Pot Life	3 hours
• Shelf Life	1 year
• Time to traffic	24 hours
• Temperature Resistance	-30°C to150°C

Properties tested to IS15477:2019

Tensile Adhesion Strength (as per Annex A , Clause 5.1)	Desired Values	Actual Values
• Dry Condition	> 1.5 N/mm ²	> 1.58 N/mm ²
• Wet Condition	> 1.0 N/mm ²	> 1.10 N/mm ²
Shear Adhesion Strength (as per Annex B , Clause 5.2)		
• Dry Condition	> 1.5 N/mm ²	> 1.54 N/mm ²
• Heat Ageing Condition	> 1.0 N/mm ²	> 1.12 N/mm ²
• Wet Condition	> 1.0 N/mm ²	> 1.13 N/mm ²
Slip Resistance as per Annex E, Clause 5.5	< 0.5 mm	0.26 mm

Properties tested to EN12004:2017

Tensile Adhesion Strength (as per EN 1348)	Desired Values	Actual Values
• 28 days in Normal Conditions	≥ 1.0 N/mm ²	> 1.54 N/mm ²
• Thermal Ageing at 70° C for 14 days	≥ 1.0 N/mm ²	> 1.14 N/mm ²
• Water Immersion for 21 days	≥ 1.0 N/mm ²	> 1.02 N/mm ²
• Freeze - thaw cycles	≥ 1.0 N/mm ²	> 1.0 N/mm ²
(EN 1346)		
Slip Resistance (as per EN 1308)	≤ 0.5 mm	≤ 0.5 mm

INSTRUCTIONS

SURFACE PREPARATION

- Surface temperature should be between 4° C to 40° C and structurally sound, clean and free of waxes, dirt and coatings, laitance, sealers or curing compounds.
- Dry, dusty concrete slabs or masonry should be dampened and excess water swept off.

APPLICATION METHOD

- Apply adhesive to the substrate with flat side of the trowel, pressing firmly into substrate.
- Comb on additional adhesive with the notched side.
- Use the proper sized notched trowel to ensure full bedding of the tile.
- Spread as much adhesive as can be covered with tile in 10 minutes. Back butter large tiles (18" x 36") to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to imbed tile and adjust level.
- Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile.
- If adhesive is skinned over (not sticky), remove and replace with fresh adhesive.
- Grouting:- Grout installation should be done after a minimum of 24 hours curing time at 21° C
- During cold weather, protect finished work from traffic until fully cured.

PREPARING THE MIX

- Fill clean, potable water into a container.
- Add RachTR TSA ST powder into the mixing bowl. Use approximately
- Grey - 7 - 9 L of water for 25 kg of powder
- White- 7 - 9 L of water for 25 kg of powder
- Ensure proper and thorough mixing with slow speed mixer up till trowelable consistency.
- Adjust consistency if necessary.
- Apply with notch trowel.
- Use Gloves, Goggles and Respirators while applying

EMERGENCY/FIRST AID

- Ingestion: Do not induce vomiting. Call a physician
- Eye Contact: Flush thoroughly with water for at least 15 minutes. Remove contact lenses, if applicable, and continue flushing. Call a physician if eye irritation persists.
- Skin Contact: Wash skin with mild soap and water. Call a physician if skin irritation persists. Wash clothes before wearing again.
- Inhalation: Remove to fresh air. Call a physician if respiratory irritation persists.

STORAGE AND HANDLING

May be harmful if swallowed. May cause skin, eye and respiratory irritation. Do not inhale. Avoid prolong exposure to powder. Use in a well ventilated area. Do not ingest. KEEP OUT OF THE REACH OF THE CHILDREN. Do not freeze or store above 40° C. Do not mix with other chemicals



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