

High performance cementitious adhesive for fixing ceramic tiles and natural stones designed for interior and exterior application.



- EN12004:2017 C2T
- IS 15477:2019 Type 2T



**GreenPro  
Certified**

## PRODUCT BENEFITS

- Designed for interior and exterior applications
- High tensile strength
- Absorbs high loads
- Slip resistance
- High tensile strength
- Sustains heat aging
- Good underwater shear bond
- Shock resistant
- Zero VOC content

## APPLICATION AREAS

- Floors
- Walls
- Showers
- Damp Areas
- Tile on tile applications
- Dry areas
- Worktops

**PACKAGING SIZE**

**20 KG**

## USAGE

### Materials

- Marbles
- Ceramic tile
- Vitrified / Vitreous, Semi-vitreous tile
- Ceramic mosaic tiles
- Terracotta
- Precast terrazzo
- Natural stones

### Substrates

- Concrete
- Concrete Masonry
- Cement Mortar Beds
- Cement Plaster
- Ceramic Tile
- Brick Masonry
- Cement Terrazzo
- Existing Natural Stones

\* Surface to be cleaned and roughened before installation of Tiles & Stones

## COVERAGE

Approximately 70 - 75 sqft per 20 kg bag @3mm thickness

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

# TECHNICAL DATA

• Form	Powder
• Color	White and Grey
• Mixing Ratio	<b>100:28 pbw</b>
• Pot Life	3 hours
• Shelf Life	1 year
• Open Time	> 20 mins
• Time to traffic	24 hours
• Temperature Resistance	-30°C to 150°C

## Properties tested to IS15477:2019

Tensile Adhesion Strength (as per Annex A , Clause 5.1)	Desired Values	Actual Values
• Dry Condition	> 1.0 N/mm <sup>2</sup>	> 1.42 N/mm <sup>2</sup>
• Wet Condition	> 1.0 N/mm <sup>2</sup>	> 1.08 N/mm <sup>2</sup>
Shear Adhesion Strength (as per Annex B , Clause 5.2)		
• Dry Condition	> 1.25 N/mm <sup>2</sup>	> 1.29 N/mm <sup>2</sup>
• Heat Ageing Condition	> 1.0 N/mm <sup>2</sup>	> 1.28 N/mm <sup>2</sup>
• Wet Condition	> 1.0 N/mm <sup>2</sup>	> 1.18 N/mm <sup>2</sup>
Slip Resistance as per Annex E, Clause 5.5	< 0.5 mm	0.21 mm

Tensile Adhesion Strength (as per EN 1348 )	Desired Values	Actual Values
• 28 days in Normal Conditions	≥ 1.0 N/mm <sup>2</sup>	> 1.42 N/mm <sup>2</sup>
• Thermal Ageing at 70° C for 14 days	≥ 1.0 N/mm <sup>2</sup>	> 1.12 N/mm <sup>2</sup>
• Freeze - thaw cycles	≥ 1.0 N/mm <sup>2</sup>	> 1.04 N/mm <sup>2</sup>
Open time @ 20 mins: Tensile Adhesion Strength (EN 1346)	≥ 0.5 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>
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 cleaned with water 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.
- 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 ECO+ powder into the mixing bowl. Use approximately 5-7 L of water for 20 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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