

**Polymer modified cementitious adhesive for fixing tiles and natural stones designed for interior application.**



- **EN12004:2017 C1T**
- **IS 15477:2019 Type 1T**

## PRODUCT BENEFITS

- Designed for interior and exterior applications
- Tile-on-Tile and Wet-on-Wet systems
- Uni-component
- High tensile strength
- Sustains heat ageing
- Low VOC Content

## APPLICATION AREAS

- Floors
- Walls
- Tile on tile applications
- Dry areas
- Worktops

## 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.

## 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

## PACKAGING SIZE

**20 KG**

## TECHNICAL DATA

• Form	Powder
• Colors	Grey
• Mixing Ratio	30-32 parts Water per 100 parts TSA ECO by weight (5.7 litres of water every 20kg of TSA- ECO )
• Pot Life	3 hours
• Shelf Life	1 year
• 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	> 0.5 N/mm <sup>2</sup>	> 0.64 N/mm <sup>2</sup>
Shear Adhesion Strength (as per Annex B , Clause 5.2)		
• Dry Condition	> 1 N/mm <sup>2</sup>	> 1.12 N/mm <sup>2</sup>

### Properties tested to EN12004:2017

Tensile Adhesion Strength (as per EN 1348 )	Desired Values	Actual Values
• 28 days in Normal Conditions	≥ 0.5 N/mm <sup>2</sup>	> 0.67 N/mm <sup>2</sup>
• Thermal Ageing at 70° C for 14 days	≥ 0.5 N/mm <sup>2</sup>	> 0.60 N/mm <sup>2</sup>
• Water Immersion for 21 days	≥ 0.5 N/mm <sup>2</sup>	> 0.58 N/mm <sup>2</sup>
• Freeze - thaw cycles	≥ 0.5 N/mm <sup>2</sup>	> 0.5 N/mm <sup>2</sup>
Open time (EN 1346)	> 20 min	> 20 min

# 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 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 prolonged 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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