RachTR®

# TSA ECO +

**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 | **100:28 pbw** |
| • 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 $N/mm^2$ | > 1.42 $N/mm^2$ |
| • Wet Condition | > 1.0 $N/mm^2$ | > 1.08 $N/mm^2$ |
| Shear Adhesion Strength (as per Annex B , Clause 5.2) | | |
| • Dry Condition | > 1.25 $N/mm^2$ | > 1.29 $N/mm^2$ |
| • Heat Ageing Condition | > 1.0 $N/mm^2$ | > 1.28 $N/mm^2$ |
| • Wet Condition | > 1.0 $N/mm^2$ | > 1.18 $N/mm^2$ |

**Properties tested to EN12004:2017**

| Tensile Adhesion Strength (as per EN 1348 ) | Desired Values | Actual Values |
|---|---|---|
| • 28 days in Normal Conditions | ≥ 1.0 $N/mm^2$ | > 1.42 $N/mm^2$ |
| • Thermal Ageing at 70˚ C for 14 days | ≥ 1.0 $N/mm^2$ | > 1.12 $N/mm^2$ |
| • Freeze - thaw cycles | ≥ 1.0 $N/mm^2$ | > 1.04 $N/mm^2$ |
| 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

RachTR®
**Global** Excellence | **Local** Expertise

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