

Highly resilient,
fibre reinforced advanced
polymer modified cementitious
adhesive with inherent flexile feature
for fixing large format tiles and stones
designed for both interior and exterior
applications



- EN12004:2017 C2 TE S1
- IS 15477:2019 Type 4 TS1

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 PR by weight (7.5-8 litres of water every 25kg of TSA- PR)
• 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	> 1.5 N/mm ²	> 1.86 N/mm ²
• Wet Condition	> 1.0 N/mm ²	> 1.21 N/mm ²
Shear Adhesion Strength (as per Annex B , Clause 5.2)		
• Dry Condition	> 1.5 N/mm ²	> 1.76 N/mm ²
• Heat Ageing Condition	> 1.0 N/mm ²	> 1.34 N/mm ²
• Wet Condition	> 1.0 N/mm ²	> 1.16 N/mm ²
Open Time (as per Annex C)	≥ 30 minutes	≥ 30 minutes
Slip Resistance as per Annex E, Clause 5.5	< 0.5 mm	0.2 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	> 1.83 N/mm ²
• Thermal Ageing at 70° C for 14 days	≥ 1.0 N/mm ²	> 1.74 N/mm ²
• Water Immersion for 21 days	≥ 1.0 N/mm ²	> 1.22 N/mm ²
• Freeze - thaw cycles	≥ 1.0 N/mm ²	> 1.0 N/mm ²
Open time (EN 1346)		> 30 minutes
Slip Resistance (as per EN 1308)	≤ 0.5 mm	≤ 0.5 mm
Deformability (as per EN 12002)	> 2.5 mm	> 2.5 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 PR 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



RachTR Chemicals Pvt. Ltd.
D-10, 2nd Floor, DDA LSC Naraina Vihar, New Delhi -110028
Tel. +91-7827191824, +91-11-40392557
Web: www.rachtr.com - Email: marketing@rachtr.com
Manufactured in INDIA

The above information is based on the latest stage of our development and application technology. Due to multiplicity of influencing factors, this information must be considered as non-binding. Because conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.