

# ShaliTile® Fix 300



High performance, hydraulic mineral adhesive for tiles & stones

STP Limited

## Description

**ShaliTile® Fix 300** is a single component, pre-packed, tile adhesive mortar consisting of cement, selected grades of silica and additives.

**ShaliTile® Fix 300** has good bonding and consistency and can be used for fixing different kind of tiles / granites / marbles in interior & exterior floors/ walls which is water proofed and suitable for wet area applications.

**ShaliTile® Fix 300** needs addition of water only before preparation of bed for fixing tiles. It conforms to IS:15477-Type 3 & EN 12004-C2TE cementitious adhesive (C2) with slip resistant (T), extended open time (E).

## Characteristics

|   |                                |                                   |              |
|---|--------------------------------|-----------------------------------|--------------|
| Texture   | Powder                         | Curing time @ 35°C, hrs.          | 14           |
| Pot life, @ 20°C, minutes                         | 155                            | Bulk Density, kg / m <sup>3</sup> | 1730 approx. |
| Theoretical coverage*, m <sup>2</sup> , 20 kg bag | 6.5 to 7<br>For 2 mm thickness | Bedding Thickness                 | 2 to 6 mm    |

\*Depending upon surface condition

## Parameters as per IS: 15477-2019

## Parameters as per EN: 12004-2017

| Test Method  | Requirement           | Typical Result       | Test Method   | Requirement | Typical Result |
|--|-----------------------|----------------------|---|-------------|----------------|
| Tensile Adhesion Strength (as per Annex A), N / mm <sup>2</sup><br>a) Dry condition<br>b) Wet condition                    | 1.5<br>1              | 1.53<br>1.03         | Tensile Adhesion Strength (Clause 8.3), N / mm <sup>2</sup><br># Initial<br># After water immersion | 1<br>1      | 1.80<br>1.34   |
| Shear Adhesion Strength (as per Annex A), N / mm <sup>2</sup><br>a) Dry condition<br>b) Heat condition<br>c) Wet condition | 1.5<br>1<br>1         | 1.55<br>1.15<br>1.28 | Open time @ 30 mins: Tensile Adhesion Strength, N / mm (Clause 8.1 & 8.3)                           | ≥ 0.50      | 1.5            |
| Open time (as per Annex C), minutes  | As per Mfr.           | <b>35</b>            | Slip (T) (Clause 8.2), mm   | ≤ 0.55      | 0.48           |
| Adjustment time (as per Annex D) Slip (as per Annex E), minutes  | As per Mfr.           | 30                   |   |             |                |
| Slip (as per annex E), mm  | Slip (as per annex E) | 0.48                 |   |             |                |

## Application

- Vitrified tiles
- Natural & reconstituted stones
- Over concrete / masonry, cementitious plaster and render

## Advantages

- Pre-packed adhesive mortar, which needs mixing of only water at site.
- High bond strength. Ideal for vertical / horizontal applications of tiles, granites, marble, etc.
- Waterproof and Self-Curing.
- Can be used for interior / exterior concrete / plastered surface.

## Application Methodology

### ➤ Surface Preparation

- Ensure that application surface is clean, dry, structurally sound, free of all grease, oil, dirt, dust, and other foreign matter.
- Prepare the surface mechanically by cleaning with wire brush ensuring sufficient flatness of the substrate for ensuring the uniformity of the coverage of adhesive.
- Moist the prepared surface before laying of **ShaliTile® Fix 300**.

### ➤ Material Preparation

- Add **ShaliTile® Fix 300** into water in the ratio of 4 : 1 by volume.
- Take 2/3<sup>rd</sup> of the desired water quantity and slowly add **ShaliTile® Fix 300**, while mixing with a slow speed mechanical mixture.
- On achieving the consistent mix, add remaining 1/3<sup>rd</sup> water and continue mixing with slow speed mechanical mixture till desired consistency for preparation of bed is achieved.
- Wait for 5 minutes and then begin laying the bed for fixing tiles / granites / marble.

### ➤ Application of Material

- The mixed adhesive is applied to the prepared surface with a trowel and then combed through with a suitably sized square toothed notched trowel to achieve the minimum 2 mm thickness.
- Apply **ShaliTile Fix® 300** on the substrate as per the requirement which can be applied within its open time.
- Press firmly the tile onto the substrate for few seconds to ensure good contact with the adhesive.
- For better adhesion, apply **ShaliTile® Fix 300** on back of tile as well as on substrate.
- Remove and clean excessive adhesive from the tile faces and joints.

## Limitation

- Do not apply **ShaliTile® Fix 300** over wood, asphalt sheeting, vinyl covered wall board, cement asbestos board, metal, glass, plastic, or gypsum mortar beds.
- Apply **ShaliTile® Fix 300** when the ambient temperature is between 4 - 40°C.

## Cleaning

Clean all tools immediately after use with water. Do not allow material to harden.

## Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

## Packing

Available in 20 kg bag.

## Storage

Store in a cool dry place under shed away from heat.

## Shelf Life

6 months in original unopened sealed condition.



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**Advisory Cell: +91 81302 81114**