

ShaliTile® Fix 400



High-performance mineral based deformable adhesive for tiles & stones

STP Limited

Description

ShaliTile® Fix 400 is a single component, pre-packed, tile adhesive mortar consisting of cement, selected grades of silica and additives.

ShaliTile® Fix 400 has good bonding and consistency and can be used for fixing different kind of vitrified tiles / granites / marbles in interior & exterior floors / walls which is waterproofed and also suitable for wet area applications.

ShaliTile® Fix 400 needs addition of water only before preparation of bed for fixing tiles. It conforms to IS:15477-Type 4 & EN 12004-C2TES1 cementitious adhesive (C2) with slip resistant (T), extended open time (E), deformable (S1).

Characteristics

Texture	Powder	Curing time @ 35°C, hrs.	24
Pot life, @ 20°C, minutes	180	Bulk Density, kg / m ³	1730 approx.
Theoretical coverage*, m ² , 20 kg bag	7 to 7.5 For 2 mm thickness	Bedding Thickness	2 to 15 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 ² a) Dry condition b) Wet condition	1.5 1	1.80 1.34	Tensile Adhesion Strength (Clause 8.3), N / mm ² # Initial # After water immersion	1 1	1.80 1.34
Shear Adhesion Strength (as per Annex A), N / mm ² a) Dry condition b) Heat condition c) Wet condition	1.5 1 1	1.83 1.58 1.38	Open time @ 30 mins: Tensile Adhesion Strength, N / mm (Clause 8.1 & 8.3)	≥ 0.50	1.80
Open time (as per Annex C), minutes	As per Mftr. 1	35	Slip (T) (Clause 8.2), mm	≤ 0.55	0.45
Adjustment time (as per Annex D) Slip (as per Annex E), minutes	As per Mftr.	35	Deformability	≥ 2.5 < 5	2.72
Slip (as per annex E), mm	Slip (as per annex E)	0.45			
Deformability, mm	≥ 2.5 < 5	2.72			

Application

- Large size 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 400**.

➤ Material Preparation

- Add **ShaliTile® Fix 400** into water in the ratio of 4 : 1 by volume.
- Take 2/3rd of the desired water quantity and slowly add **ShaliTile® Fix 400**, while mixing with a slow speed mechanical mixture.
- On achieving the consistent mix, add remaining 1/3rd 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® 400** 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 400** 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 400** over wood, asphalt sheeting, vinyl covered wall board, cement asbestos board, metal, glass, plastic, or gypsum mortar beds.
- Apply **ShaliTile® Fix 400** 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.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing and Insulation
- Road Surfacing
- Sealants and Additives
- Pipeline Coating
- Protective / Anti-Corrosive Coating
- Epoxy Flooring
- Grouts / Admixtures
- RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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