

Tile Adhesive - High Strength

ST-TA

High strength polymerized thin bed adhesive with efflorescence resistance complying with C1 class of BS EN 12004 for both interior and exterior wall and floor tile fixing



PRODUCT DESCRIPTION

ST-TA is a proprietary cementitious high polymer premixed tile adhesive specially designed for tile fixing purpose. Product characteristics of ST-TA fully comply with the requirements of BS EN 12004 Type C Class 1 (Normal cementitious adhesive C1 grade). ST-TA has good effect in preventing efflorescence. Best result for combating efflorescence can be achieved by employing Score Tech's render/plaster and tile grout products in the entire system. ST-TA therefore provides assurance to applicators with its excellent quality, durability and on-site performance.

SUBSTRATE PREPARATION

The substrate must be sound, even, well-aligned, clean and free of loose particles, grease and any other unwanted contaminants. The substrate should be allowed being fully cured to ensure majority magnitude of shrinkage movement has taken place before tile fixing. Special care such as pre-priming with Score Tech Supreme Primer (ST-SP) must be attended to when applying on absorptive substrates such as gypsum plaster and Score Tech's staff should be consulted before tile fixing to confirm the suitability of the tile adhesive material to be applied on such substrate.

FEATURES & BENEFITS

- ◆ Premixed in factory
- ◆ Strong adhesion to substrate
- ◆ Suitable for both interior & exterior use
- ◆ Sustainable to seasonal cycles
- ◆ Ample open time for application
- ◆ Non-slip properties
- ◆ Thixotropic characteristics
- ◆ Extremely low shrinkage
- ◆ Anti-efflorescence

AREAS OF APPLICATION

- ◆ Tiling on various types of cementitious based substrates
- ◆ When tiling on highly absorptive substrates such as gypsum board, cement board, dry wall panels, etc., it is recommended to prime the substrate surface with Score Tech Supreme Primer (ST-SP) before commencement
- ◆ Suitable for fixing both wall and floor tiles at interior and exterior environments
- ◆ Able to fix tiles on cementitious based waterproofing materials

MIXING & INSTALLATION

1. Pre-wet the substrate surface with clean water moderately before application of tile adhesive.
2. Mix the tile adhesive with mechanical mixer for 5 - 7 minutes until a lump-free homogeneous paste is obtained. Allow the mixture to stand for 10 minutes and remix gently for 30 seconds before use.
3. Apply the well mixed tile adhesive directly onto the substrate and notch with a notched trowel to control the application thickness over the tiling area. The open time of tile adhesive may vary at different weather conditions and absorptive substrate will also reduce the open time of tile adhesive.
4. Back-butter is required for the tiles with deep grooves, ridges or in large size.
5. Place and press the tiles firmly onto tile adhesive bed by gently tapping on the tiles to ensure good contact. Regular check is recommended to ensure full bedding.
6. Remove any excessive tile adhesive before it becomes dry. Tile grouting work can be commenced 24 hours after tile installation.

CURING

Under normal circumstances, natural air curing for ST-TA is proven adequate.

PACKAGE

40 kg bag

SHELF LIFE

ST-TA has a shelf life of 12 months if well kept in dry condition on lifted floor.

HEALTH & SAFETY

Wear NIOSH approved face mask or equivalent personal protective equipment when handling the material. ST-TA contains cement which may cause an allergic effect or irritation to eyes and skin. When contact with eyes, flush immediately with large quantity of water.

REFERENCE STANDARDS

- ◆ European Standard: BS EN 12004
- ◆ American Standard: USEPA Method 24
- ◆ Hong Kong Standard: HKHA FIN5.M1010
- ◆ Chinese Standard: JC/T 547; JC/T 1024

PRODUCT INFORMATION

⌚ Colour	Grey / White
⌚ Maximum Grain Size	1.0 mm
⌚ Water Demand	Grey : ~ 11.6 ± 0.4L / 40 kg bag White : ~ 12 ± 0.4L / 40 kg bag
⌚ Pot Life	~ 2 hours
⌚ Coverage	~ 1.2 kg/m ² /mm

PRODUCT PERFORMANCE

⌚ Initial Tensile Adhesion Strength	BS EN 1348	≥ 0.5 N/mm ²
⌚ Tensile Adhesion Strength after Water Immersion	BS EN 1348	≥ 0.5 N/mm ²
⌚ Tensile Adhesion Strength after Heat Ageing	BS EN 1348	≥ 0.5 N/mm ²
⌚ Tensile Adhesion Strength after Freeze-thaw Cycles	BS EN 1348	≥ 0.5 N/mm ²
⌚ Open Time: not less than 20 minutes	BS EN 1346	≥ 0.5 N/mm ²
⌚ Resistance to Efflorescence	JC/T 1024	No efflorescence after 21 cycles
⌚ VOC Content	USEPA Method 24	≤ 10 g/L

* Note: The test standards for the product performance stated above refer to laboratory test only.

DISCLAIMER

Note: As the application condition may vary from site to site and may not be identical to the same condition under which the parameters in the brochure are drawn, the information provided on this Technical Data Sheet is for general guidance only. Warranty will not be given to the ultimate performance and application results of this material when the material is not kept, mixed, applied or cured strictly in accordance with the requirements and/or instructions listed out in this brochure or in other supplementary document.

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