Tile Adhesive - Super High Strength ST-TA(Super)

Super high strength polymerized thin bed deformable, water and efflorescence resistant adhesives complying with C2TE class of BS EN 12004 & S1 class of BS EN 12002 suitable for both interior and exterior wall and floor tile fixing.

PRODUCT DESCRIPTION

ST-TA(Super) is a proprietary premixed highly polymerized cementitious tile adhesive specially designed for fixing large homogeneous wall and floor tiles requiring highly flexible and water resistant characteristics. Product characteristics of ST-TA(Super) fully comply with the requirements of BS EN 12004 Type C Class 2 (Improved cementitious adhesive C2 grade) and BS EN 12002 Class S1 deformability with super high adhesion strength, reduced-slip and extended open time properties. ST-TA(Super) also has excellent 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.

SUBSTRATE PREPARATION

The substrate must be sound, even, well-aligned, clean and free of loose particles, grease and any other unwanted contaminants which may affect the adhesion of adhesive. Tile fixing works can be commenced after the substrate attains adequate maturity especially in shrinkage movement.

For tiles with ultra-low water absorption (very close to zero) or bearing a coating at the tile's back, adhesion between tile adhesive and the tile is often barred. Pre-treatment of tile's back with bond coat slurry (ST-BCL : OPC = 1 : 2 by vol.) at least one day prior to tile installation is highly recommended to enhance the interfacial adhesion.

FEATURES & BENEFITS

- Super strong adhesion to substrate
- Deformable and highly flexible
- Water resistant
- Suitable for tiling large size tiles
- Sustainable to seasonal cycles
- Extended open time for application
- Non-slip properties
- Thixotropic characteristics
- Extremely low shrinkage
- Anti-efflorescence

AREAS OF APPLICATION

- Fixing large size (e.g. 600x600mm, 1000x1000mm, etc) ceramic tiles, homogeneous tiles, natural stone, granites, etc. Consult Score Tech staff for fixing tiles in larger size.
- Fixing on old tiles, wood, metal & cementitious 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/ exterior environments and water retaining structures, e.g. water tank, swimming pool, etc.
- Able to fix tiles on cementitious based waterproofing materials.

MIXING & INSTALLATION

1. Moisten 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 achieved. Allow the mixed tile adhesive material to stand for 10 minutes and mix again 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 the 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 groves, ridges or large size.
5. Place and press the tiles firmly into the adhesive bed by gently tapping on the tiles to ensure good contact. Regular check is recommended to make sure there is no void under the back of the tiles.
6. Remove any excess adhesive before the adhesive become dry. Tile grouting by using ST-TG can be commenced 24 hours after the tiles are fixed.

CURING

Under normal circumstances, natural curing for ST-TA(Super) is proven to be adequate.

PACKAGE

40 kg bag

SHELF LIFE

ST-TA(Super) 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(Super) 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; BS EN 12002
- Hong Kong Standard: HKHA FIN5.M1010; Product Certificate PCCS-TA
- Amercian Standard: ASTM D3690
- Chinese Standard: JC/T 547; JC/T 1024
- German Standard: DIN 4102-1
- CIC Green Product Certification - Platinum

CIC GREEN
PRODUCT CERTIFICATION
CICGPC-L-19010(A&S)

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/m²/mm

PRODUCT PERFORMANCE

Initial Tensile Adhesion Strength	BS EN 1348	2.2 N/mm²
Tensile Adhesion Strength after Water Immersion	BS EN 1348	1.8 N/mm²
Tensile Adhesion Strength after Heat Ageing	BS EN 1348	1.8 N/mm²
Tensile Adhesion Strength after Freeze-thaw Cycles	BS EN 1348	2.4 N/mm²
Open Time: not less than 30 minutes	BS EN 1346	≥ 0.5 N/mm²
Slip	BS EN 1308	≤ 0.5 mm
Deformation	BS EN 12002	S1 deformable
VOC Content	ASTM D3960	≤ 2 g/kg
Resistance to Efflorescence	JC/T 1204	No efflorescence after 21 cycles

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

DISCLAIMER

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