ile Adhesive - Ultra Strength

St-TA(US)

High strength, polymerized thin bed tile adhesive with efflorescence resistance complying with Class C2TE of BS EN 12004 for both interior and exterior wall and floor tile fixing application.





PRODUCT DESCRIPTION

ST-TA(US) is a proprietary premixed, high performance, water resistant and single component cementitious tile adhesive specially designed for fixing porous and vitreous tiles including granite, artificial granite tile, ceramic and homogeneous tiles. Product characteristics of ST-TA(US) fully complies with the requirement of BS EN 12004 Type C Class 2TE (Improved cementitious adhesive C2 grade) with ultra high adhesion strength, reduced-slip and extended open time properties. ST-TA(US) 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 from loose particles, grease and any other unwanted contaminants. 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, priming tile's back with bond coat slurry (ST-BCL: OPC = 1:1.5-2 by vol.) at least one day prior to tile installation is highly recommended to enhance the interfacial adhesion between tile adhesive and tile.

FEATURES & BENEFITS

- Premixed in factory
- ♦ Ultra strong adhesion to substrate
- ♦ Suitable for both interior & exterior use
- Sustainable to seasonal cycles
- Extended open time for application
- Non-slip properties
- ♦ Thixotropic characteristics
- Extremely low shrinkage
- Non-toxic to human beings when contact with potable water
- ♦ Anti-efflorescence

AREAS OF APPLICATION

- Suitable for fixing both wall and floor tiles at interior/exterior environments and water retaining structures, e.g. water tank, swimming pool, etc.
- Fixing large size (e.g. 300x300mm, 600x600mm, etc) ceramic tiles, homogeneous tiles, natural stone, granites, etc. Consult Score Tech staff for fixing tiles in larger size.
- When tiling on highly absorptive substrates such as gypsum board, cement board, dry wall panels, etc., priming the substrate surface with diluted Score Tech Supreme Primer (ST-SP) in advance is highly recommended.
- Able to fix tiles on cementitious based waterproofing materials such as Score Tech Waterproofing Series.

MIXING & INSTALLATION

- Pre-wet the substrate surface with clean water moderately before application of tile adhesive.
- 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
- 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 groves, ridges or in large size.
- 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.
- Remove any excessive tile adhesive before it becomes dry. Tile grouting work can be commenced 24 hours after tile installation.

PACKAGE

40 kg bag

SHELF LIFE

ST-TA(US) 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(US) 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
 British Standard: BS 5980; BS 6920
 Hong Kong Standard: HKHA FIN5.M1010;

Product Certificate PCCS-TA

Amercian Standard: ANSI A118.4; ASTM D3960

Chinese Standard: JC/T 547; JC/T 1024
 Water Regulation Advisory Scheme (WRAS)

♦ CIC Green Product Certification - Platinum

CURING

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



PRODUCT INFORMATION \wp

₽ Colour	**	Grey / White	
		1.0 mm	
		Grey : $\sim 11.6 \pm 0.4 L / 40 \text{ kg bag}$ White : $\sim 12 \pm 0.4 L / 40 \text{ kg bag}$	
Pot Life		~ 2 hours	
Coverage		~ 1.2 kg/m²/mm	

PRODUCT PERFORMANCE \wp

٦	Initial Tensile Adhesion Strength	BS EN 1348	1.9 N/mm²	
٥	Tensile Adhesion Strength after Water Immersion	BS EN 1348	1.3 N/mm²	
٥	Tensile Adhesion Strength after Heat Ageing	BS EN 1348	2.0 N/mm ²	
٥	Tensile Adhesion Strength after Freeze-thaw Cycles	BS EN 1348	1.9 N/mm²	
٥	Open Time: not less than 30 minutes	BS EN 1346		
۵	Slip Resistance	BS EN 1308	≤ 0.5 mm	
٥	Adjustment Time	BS 5980	10 minutes	
٥	Shear Adhesion Strength	BS 5980	25.4 kN	
٥	VOC Content	ASTM D3960	≤ 10 g/L	
٥	Resistance to Mould Growth	BS 5980	No Mould Growth	4
٥	Resistance to Efflorescence	JC/T 1024	No efflorescence after 21 cycles	
۵	Suitability for Use in Contact with Potable Water	BS 6920	Suitable for use in potable water tank	

^{*} 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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