
ST-TA(Super)

Tile Adhesive – Super High Strength

Super strong adhesion to substrate

Water resistant and weather resistant

Extended open time for application

Deformable and highly flexible

Non-slip properties

Anti-efflorescence

Non-toxic to human being when use in contact with potable water

Suitable for tiling large size or low absorptivity tiles



CIC GREEN
PRODUCT CERTIFICATION

ST-TA(Super)

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PRODUCT DESCRIPTION

ST-TA(Super) is a proprietary highly polymerized cementitious tile adhesive specially designed for fixing large or low absorption ($\leq 0.3\%$) tiles. ST-TA(Super) fully comply with the requirements of Class C2TES1 of BS EN 12004 with super high adhesion strength, reduced-slip, extended open time and flexible properties. ST-TA(Super) also has excellent effect in preventing efflorescence. Best result for combating efflorescence can be achieved by employing Ardex Scoretech's render/ plaster and tile grout products in the entire system. Priming with ST-LA on concrete substrate, which is envisaged as a potential risk of efflorescence source, will further assure the prevention of efflorescence.

AREAS OF APPLICATION

- Fixing large size (e.g. 600 x 600mm, 1000 x 1000mm) ceramic tiles, homogeneous tiles, natural stone, granites, etc. (Consultation with Ardex Scoretech is recommended)
- Fixing extremely low water absorption tiles ($< 0.3\%$).
- 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.

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.

MIXING & INSTALLATION

1. Mix ST-TA(Super) with mechanical mixer until a lump-free homogeneous paste is achieved. Allow the mixed tile adhesive to slake for 10 minutes and mix again gently for 30 seconds before use.
2. 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. Open time of the tile adhesive may vary weather conditions and absorptivity of substrate.
3. For large tiles or tiles with deep groves or ridges. Back-buttering is recommended.
4. Press tiles firmly onto the adhesive bed followed by gentle tapping to ensure no void between tiles and adhesive.
5. Tile grouting can be commenced 24 hours after completion of tile fixing.
6. For detailed application method, please refer to the method statement.

CURING

Natural air curing is normally adequate for ST-TA(Super).

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

A qualified mask or equivalent personal protective equipment must be worn when handling this product. This product is non-toxic and does not contain harmful substances but may cause allergies or irritation to eyes and skin. If it accidentally comes into contact with eyes, rinse immediately with plenty of water and seek for medication.

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REFERENCE STANDARDS

British Standard	: BS EN 12004; BS EN 12002
Hong Kong Standard	: HKHA FIN5.M1010; Product Certificate PCCS-TA
American Standard	: ASTM D3690
Chinese Standard	: JC/T 1024
German Standard	: DIN 4102-1
CIC Green Product Certification	- Platinum

PRODUCT INFORMATION

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

PRODUCT PERFORMANCE

Performance	Test Standard	Result
Tensile Adhesion Strength		
Initial	BS EN 1348	≥ 1.5 N/mm ²
after Water Immersion	BS EN 1348	≥ 1.5 N/mm ²
after Heat Ageing	BS EN 1348	≥ 1.5 N/mm ²
Freeze-thaw Cycles	BS EN 1348	≥ 1.5 N/mm ²
Open Time ≥ 30 minutes	BS EN 1346	≥ 0.5 N/mm ²
Slip Resistance	BS EN 1308	≤ 0.5 mm
Deformation	BS EN 12002	S1 deformable
VOC Content	ASTM D3960	≤ 10 g/L
Resistance to Efflorescence	JC/T 1024	No efflorescence
Flame resistance	DIN4102-1	Class A2

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

DISCLAIMER

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 in 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 any other supplementary document.