

# ST-TA(US)

## Tile Adhesive – Ultra Strength

Ultra strong adhesion to substrate

Water resistant and weather resistant

Extended open time for application

Non-slip properties

Anti-efflorescence

Non-toxic to human being and suitable for use in potable water tank

Suitable for fixing different types of tiles (e.g., granite tile, ceramic tile, homogeneous tile, etc.)



CIC GREEN  
PRODUCT CERTIFICATION

# ST-TA(US)

## Tile Adhesive – Ultra Strength

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### PRODUCT DESCRIPTION

ST-TA(US) is a proprietary polymerized cementitious tile adhesive specially designed for fixing porous and vitreous tiles including granite, artificial granite tile, ceramic and homogeneous tiles with 1-component application or 2-component application for further enhancement. ST-TA(US) fully comply with the requirements of Class C2TE of BS EN 12004 with ultra-high adhesion strength, reduced-slip, extended open time properties. ST-TA(US) 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, can further reduce the risk of efflorescence.

### AREAS OF APPLICATION

- Fixing large size ceramic tiles, homogeneous tiles, natural stone, granites, etc.
- Fixing extremely low water absorption tiles ( $\leq 0.3\%$ ) or tiles with bond breaker by applying bond coat slurry or mixing ST-TA(US) with gauging liquid for 2-component application.
- 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 of loose particles, grease, and any other unwanted contaminants. The substrate surface shall be moistened before application, and no stagnant or apparent water is allowed on it.

### MIXING & INSTALLATION

1. Mix ST-TA(US) 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

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

### PACKAGE

40 kg bag (project package)

25kg bag (retail package)

### SHELF LIFE

ST-TA(US) 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 1348; BS EN 12002; BS 5980;  
BS 6920  
Hong Kong Standard : HKHA FIN5.M1010; Product Certificate PCCS-TA  
American Standard : ASTM D3960  
Chinese Standard : JC/T 1024; JC/T 547-2017  
CIC Green Product Certification - Platinum

### PRODUCT INFORMATION

|                    |                             |                |
|--------------------|-----------------------------|----------------|
| Colour             | White/ Grey                 |                |
| Maximum Grain Size | 1.0 mm                      |                |
| Water Demand       | White                       | Gery           |
| 40kg               | ~ 12 ± 0.4L                 | ~ 11.6 ± 0.4L  |
| 25kg               | ~ 7.5 ± 0.25L               | ~ 7.25 ± 0.25L |
| Coverage           | ~ 1.2 kg/m <sup>2</sup> /mm |                |
| Pot Life           | ~ 2 hours                   |                |

### PRODUCT PERFORMANCE

| Performance                               | Standard    | Result                                       |
|-------------------------------------------|-------------|----------------------------------------------|
| Tensile Adhesion Strength                 |             |                                              |
| Initial                                   | BS EN 1348  | ≥ 1.0 N/mm <sup>2</sup>                      |
| After Water Immersion                     | BS EN 1348  | ≥ 1.0 N/mm <sup>2</sup>                      |
| After Heat Ageing                         | BS EN 1348  | ≥ 1.0 N/mm <sup>2</sup>                      |
| Freeze-thaw Cycles                        | BS EN 1348  | ≥ 1.0 N/mm <sup>2</sup>                      |
| Open Time ≥ 30 minutes                    | BS EN 1346  | ≥ 0.5 N/mm <sup>2</sup>                      |
| Slip Resistance                           | BS EN 1308  | ≤ 0.5 mm                                     |
| Deformation                               | BS EN 12002 | S1 (adding gauging liquid)                   |
| VOC Content                               | ASTM D3960  | ≤ 10 g/L                                     |
| Mildew resistance                         | BS 5980     | No mould Growth                              |
| Resistance to Efflorescence               | JC/T 1024   | No efflorescence                             |
| Suitability for drinking water facilities | BS 6920     | Non-toxic, suitable for drinking water tanks |

\* 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.