

Tile Grout

ST-TG

Cementitious based tile grout with efflorescence resistance conforming to Class CG2WA of BS EN 13888 suitable for grouting wall and floor tile in both exterior and interior environment.

PRODUCT DESCRIPTION

ST-TG is a proprietary premixed cementitious tile grout material specially designed for the purpose of grouting up tile joints with different models suiting different joint widths from 1–12 mm. ST-TG is capable of preventing efflorescence. Best result for combating efflorescence can be achieved by employing Score Tech's render/plaster and tile adhesive products in the entire system. ST-TG can be supplied in colours stated in our colour chart. Other designated colours specified by clients can also be tailor-made upon request but longer lead time should be allowed for.

ST-TG is available in different models suitable for different joint widths:

Model	Recommended Joint Width
ST-TG-F (Fine texture)	1 - 3 mm
ST-TG-S (Standard texture)	2 - 7 mm
ST-TG-C (Coarse texture)	7 - 12 mm

SUBSTRATE PREPARATION

Tiles should be firmly fixed with adequate curing time for the tile adhesive before grouting the joints with ST-TG. In general, tile grouting can be commenced 24 hours after tiling. The joints and tile surface should be dampened before grouting.

FEATURES & BENEFITS

- ◆ Premixed in factory
- ◆ Shrinkage compensated
- ◆ Abrasion resistant
- ◆ Low water absorption
- ◆ Resistant to slightly acidic cleaning agent
- ◆ Non-toxic to human beings when contact with potable water
- ◆ Anti-efflorescence



AREAS OF APPLICATION

- ◆ Grouting for all kinds of tiles
- ◆ Grouting for marbles
- ◆ Suitable for both interior/exterior environments and water retaining structures, e.g. water tank, swimming pool, etc.
- ◆ Suitable for both wall and floor tiles

CONSUMPTION

~1.5 kg/m²/mm x (tile length + tile width) x tile thickness x gap width ÷ tile area

* Color chart will be provided for clients' reference upon request. There might be slight variation between the color presented in color chart and the outcome obtained on site, which may be affected by raw material, mixing, water addition, workmanship, washing effect, weather, ambient environment and aging.

MIXING & INSTALLATION

1. Mix ST-TG with mechanical mixer for about 5 - 7 minutes until a lump-free homogeneous paste is obtained. Allow the mixed ST-TG to slake for 10 minutes and then remix for 30 seconds before use.
2. Apply and gently press the well mixed ST-TG to joints at tiled wall with a rubber or sponge trowel diagonally.
3. Ensure all joints are completely filled up and remove surplus ST-TG.
4. Gently clean the tile surface with a slightly dampened sponge/towel.
5. Please refer to the application procedures in method statement for details.

CURING

Natural air curing is normally adequate for ST-TG.

PACKAGE

25 kg bag

THEORETICAL MATERIAL CONSUMPTION

Tile Dimension (mm)			Material Consumption for ST-TG: kg/m ²			
Length	Width	Thickness	Gap Width (mm)			
			3	6	8	10
20	20	4	1.8	3.6	-	-
50	50	4	0.7	1.4	-	-
95	45	7	1.0	2.1	-	-
230	60	7	0.7	1.3	-	-
150	75	6	0.5	1.1	-	-
100	100	6	0.5	1.1	-	-
150	150	6	0.4	0.7	-	-
200	200	8	0.4	0.7	-	-
300	300	10	0.3	0.6	0.6	0.8
300	600	10	0.2	0.5	0.6	0.8
450	450	12	0.2	0.5	0.7	0.9
600	600	12	0.2	0.4	0.5	0.7

SHELF LIFE

ST-TG 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-TG 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 13888
- ◆ British Standard: BS 5980; BS 6920
- ◆ Hong Kong Standard: HKHA FIN5.M1010
- ◆ American Standard: ANSI A118.6
- ◆ Chinese Standard: JC/T 1024
- ◆ General Acceptance issued by Hong Kong Water Supplies Department (WSD GA)

PRODUCT INFORMATION

Colour	Those stated in colour chart / Tailor-made
Water Demand (Standard Model)	~ 6.25L / 25kg bag
Pot Life	~ 1 hour

PRODUCT PERFORMANCE

Linear Shrinkage	ANSI A118.6 - After 24 hours - After 7D BS EN 12808-4 - After 28D	≤ 0.1 % ≤ 0.2 % ≤ 3 mm/m	Compatibility with Tile Adhesive	BS 5980:1980 Appendix D - 14D in standard cond' - 7D in standard cond' & 7D immersion in water	≥ 950N ≥ 560N
Water Absorption	ANSI A118.6 - 50%R.H. to immersion - Immersion to dry BS EN 12808-5 - After 30 minutes - After 240 minutes	≤ 5% ≤ 7% ≤ 2g ≤ 5g	Compressive Strength	BS EN 12808-3 - After dry storage - After freeze-thaw cycle	≥ 15 N/mm ² ≥ 15 N/mm ²
Abrasion Resistance	BS EN 12808-2	≤ 1000 mm ³	Flexural Strength	BS EN 12808-3 - After dry storage - After freeze-thaw cycle	≥ 2.5 N/mm ² ≥ 2.5 N/mm ²
Resistance to Mould Growth	BS 5980:1980 Appendix B	No mould growth	Resistance to Efflorescence	JC/T 1024	No efflorescence after 21 cycles
VOC Content	ASTM D3960	≤ 10 g/L	Suitability for Use In Contact with Potable Water	BS6920	Proven non-toxic 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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