

## Multi-Purpose Waterproofing Mortar

## ST-MP-WP

Polymerized premixed multi-purpose waterproofing mortar for rendering, plastering, screeding, brick laying and minor repair work purpose in both interior and exterior environments with outstanding waterproofing effect and efflorescence resistance.



### PRODUCT DESCRIPTION

ST-MP-WP is a polymerized cement-based waterproofing mortar with outstanding waterproofing effect suitable for most general plastering applications with water resistance or waterproofing requirement. It can be applied by either machine spray or hand trowel. Surface of ST-MP-WP can receive tiles or receive paint finishes. ST-MP-WP has excellent effect in preventing efflorescence. Best result for combating efflorescence can be achieved by employing Score Tech's tile adhesive and tile grout products in the entire system. ST-MP-WP is classified as the "General Purpose Mortar (GP)" and Reaction to Fire Class A1 in BS EN 998-1 & 998-2.

### SUBSTRATE PREPARATION

The substrate must be sound, even, clean and free from loose particles, grease and any other contaminants. When the substrate is found to be powdery (especially for PFA/GGBS concrete), it is recommended pre-treating the substrate surface before plastering.

The substrate surface should be pre-treated with spatterdash forming a mechanical key for plastering/rendering. The substrate surface shall be moistened overnight and at the time before application. No stagnant or apparent water is allowed on the substrate surface before application.

### FEATURES & BENEFITS

- ◆ Premixed in factory
- ◆ Machine spray or hand trowel
- ◆ Both interior & exterior applications
- ◆ Cost effective
- ◆ Single component, easy to use
- ◆ Strong adhesion to substrate
- ◆ Low shrinkage reducing the risk of cracking/ debonding
- ◆ Water resistant
- ◆ Reduced water permeability
- ◆ Suitable for filling with Score Tech Tile Adhesive & Grout series products
- ◆ Compatible with Score Tech Waterproofing Membrane products
- ◆ Anti-efflorescence

### AREAS OF APPLICATION

- ◆ Waterproof render/plaster at interior & exterior walls
- ◆ Waterproof render/plaster in wet areas (e.g. toilets, kitchens, etc.)
- ◆ Suitable for water retaining/water tight structures for potable water or water in contact with human beings e.g. water tank, swimming pool, etc.

## MIXING & INSTALLATION

1. Mix ST-MP-WP with the recommended water quantity (depending on the application method).
2. Apply the well-mixed ST-MP-WP by hand or spraying machine to achieve the required thickness in layer(s).
3. Level up the applied ST-MP-WP to the required overall thickness for alignment by straight edge.
4. Leave the applied ST-MP-WP standing (depending on ambient temperature and humidity) until its surface becomes touch hard and reaches its initial set. Make good the plaster surface to the required texture by steel trowel (for smooth texture) or wooden float (for coarse texture).  
Please refer to the method statement provided by
5. Score Tech for details.

## CURING

Under normal circumstances, natural air curing for 7 days is proven adequate for ST-W02. However, water spray/mist curing is beneficial to ensure the best performance of ST-W01 under unfavourable conditions (e.g. extremely dry, windy, exposure of sunlight, etc.).

## PRODUCT INFORMATION

Colour	Grey
Maximum Grain Size	2.5 mm
Density	Dry : ~1700 ± 150 kg/m <sup>3</sup> Wet : ~1850 ± 150 kg/m <sup>3</sup>
Coat Thickness	8 - 15 mm for 1 coat 15 - 25 mm for 2 coats 25 - 35 mm for 3 coats
Coverage	~ 1.55 kg/m <sup>2</sup> /mm thick
Water Demand	~ 6 - 8 L/40 kg bag
Pot Life	~ 1 - 2 hours

## PRODUCT PERFORMANCE

Adhesion to Concrete at 28 days	EN1015-12	≥ 0.5 N/mm <sup>2</sup>
Compressive Strength at 28 days	- EN 1015-11 - HKHA MTS Spec. Part D Cl 2.1.1 & BS 6319	≥ 10 N/mm <sup>2</sup> ≥ 25 N/mm <sup>2</sup>
Flexural Strength at 28 days	- EN 1015-11 - BS 6319-3	≥ 3 N/mm <sup>2</sup> ≥ 5 N/mm <sup>2</sup>
Water Retentivity	BS 4551	≥ 99%
Initial Surface Absorption Test (ISAT)	BS1881-5	≤ 0.01ml/m <sup>2</sup> · s (2 hours)
Water Absorption	BS1881-122	≤ 1.9%
Water Impermeability Pressure	JC/T 894	≥ 0.8 MPa
Organic Matter	BS 1377-3	≤ 1%
Pond Test	HKHA Spec. WAT6 M110	No leakage
Coutinho Ring Shrinkage at 28 days	HKHA MTS Spec. Part D Cl.2.1.6	No Cracks
Resistance to Efflorescence	JC/T 1024	No efflorescence after 21 cycles
Suitability for Use in Contact with Potable Water	WSD GA	Proven non-toxic and 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.

## PACKAGE

40 kg bag

## SHELF LIFE

ST-MP-WP 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-MP-WP 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: EN 1015
- ◆ British Standard: BS 5262; BS 5492; BS 5838; BS 6319; BS 1881; BS 8481; BS EN 998-1; BS 1377; BS EN 13914-1; BS EN 13914-2; PD CEN/TR 15123
- ◆ Hong Kong Standard: HKHA MTS Spec. Part D; HKHA WAT6 M110
- ◆ Chinese Standard: JC/T 1024
- ◆ Water Regulation Advisory Scheme (WRAS)

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