
ST-MP-WP

Multi-Purpose Waterproofing Mortar

Suitable for both machine spray or hand trowel

Both interior & exterior applications

Strong adhesion to substrate

High water retentivity

Anti-efflorescence

Low shrinkage reducing the risk of cracking/ debonding

Non-toxic to human beings when contact with potable water

Suitable for receiving Ardex and Scoretech tile adhesive, tile grout series products

ST-MP-WP

Multi-Purpose Waterproofing Mortar

PRODUCT DESCRIPTION

ST-MP-WP is a polymerized cement-based waterproofing mortar with outstanding waterproofing effect that 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, waterproofing membrane or skim coat directly. ST-MP-WP has excellent effect in preventing efflorescence. Best result for combating efflorescence can be achieved by employing Ardex Scoretech's tile adhesive and tile grout products in the entire system. ST-MP-WP is classified as "General Purpose Mortar (GP)" and Reaction to Fire Class A1 in BS EN 998-1 & 998-2.

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/ watertight structures for potable water or water in contact with human beings e.g. water tank, swimming pool, etc.
- Consult Ardex Scoretech staff for other applications

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.

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 trowel or spray 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. Make good the plaster surface to the required texture by steel trowel or wooden float. Tiling work or application of topcoat can be proceeded after sufficient curing of ST-MP-WP.
5. Please refer to the method statement provided by Ardex Scoretech for details.

CURING

Natural air curing is normally adequate for ST-MP-WP. Under exterior environment or unfavourable conditions, water curing is recommended to ensure ST-MP-WP achieves the best performance.

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

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.

REFERENCE STANDARDS

- European Standard (ES)
EN 1015
- British Standard (BS)
BS 5262; BS 5492; BS 5385;
BS 5838; BS 6319; BS 1881;
BS 8481; BS EN 998-1;
BS EN 13914-1; BS EN13914-2;
PD CEN/TR 15123
- Hong Kong Standard (HKS)
HKHA MTS Spec. Part D;
HKHA WAT6
- Chinese Standard (GB)
GB/T 25181; JC/T 1024
- Hong Kong Water Supplies Department (WSD GA)

ST-MP-WP

Multi-Purpose Waterproofing Mortar

PRODUCT INFORMATION

Colour	Grey
Maximum Grain Size	2.0 mm
Density	Dry: ~1800 ± 200 kg /m ³ Wet: ~1900 ± 200 kg/ m ³
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 ² / mm
Water Demand	~ 6 – 8 L / 40kg bag
Pot Life	~ 1 – 2 hours

PRODUCT PERFORMANCE

Performance	Test Standard	Result
Adhesion to Concrete at 28 days	EN1015-12	≥ 0.5 N/mm ²
Compressive Strength at 28 days	EN 1015-11 HKHA MTS Spec. Part D Cl 2.1.1 & BS 6319	≥ 10 N/mm ² (GB Grade M10) ≥ 25 N/mm ²
Flexural Strength at 28 days	EN 1015-11 BS 6319-3	≥ 3 N/mm ² ≥ 5 N/mm ²
Water Retentivity	BS 4551	≥ 99%
Initial Surface Absorption Test (ISAT)	BS1881-5	≤ 0.01 ml/m ² ·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
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

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.