

Elastic Waterproofing Membrane (Single-Component)

ST-EWM (1C)

Single-component elastic waterproofing membrane for cold liquid applied flexible waterproofing system for interior and exterior use.



PRODUCT DESCRIPTION

Score Tech Elastic Waterproofing Membrane (ST-EWM(1C)) is a single-component membranous product of acrylic copolymer slurry providing the required elasticity and waterproofing effect. The product has an excellent workability for application. It provides high resistant properties to water and chemical ingress. Its elastic property also help sustain the tensile stress induced at the substrate with the crack bridging capability up to 2 mm but without degrading its hydrophobic ability and resistance to chemical attack. When ST-EWM(1C) is expected to be exposed to UV, covering it with Score Tech's mortar products is highly recommended.

SUBSTRATE PREPARATION

Ensure the substrate is clean, structually sound and free of loose particles, oil, grease and other intrusion materials or residues that would affect the adhesion of ST-EWM(1C).

FEATURES & BENEFITS

- ◆ Highly hydrophobic with ultra strong resistance to water and chemical ingress.
- ◆ Easy to apply with little wastage of material
- ◆ Elastic in nature to sustain tensile stress induced and cover cracks at substrate
- ◆ Largely reduce maintenance cost
- ◆ No curing required
- ◆ Able to sustain exposure to ultra violet attack

AREAS OF APPLICATION

- ◆ Sealing and waterproofing of walls, floors and roofs at interior or exterior areas working with protections by Score Tech plaster/render/screed products
- ◆ Waterproofing for washrooms, bathrooms, kitchens, etc. at building units
- ◆ Waterproofing for roofs, exterior walls, tunnels, basements, water tanks, swimming pools, balconies, terraces, etc..

MIXING & INSTALLATION

1. ST-EWM(1C) is supplied in pails with ready-to-use waterproofing slurry for direct application. Basically, no mixing is required.
2. If the workability is to be increased to suit application requirement in certain circumstances, especially under hot climate condition, small amount of water not exceeding 5% by weight of the quantity of original slurry can be added into the paste with additional mixing by electrical drill. The addition of this small amount of water will not affect the waterproofing effect of the finished product but will slightly reduce its elasticity and prolong the dry out time.
3. Application can be done by rolling, brushing or by troweling to the required thickness.
4. Render, plaster, screed or other architectural finishing is to be applied on top of the finished ST-EWM(1C) layer, it can be done right after the hardening of the ST-EWM(1C) layer.
5. ST-EWM(1C) can be applied on damp surface but not on running water.
6. ST-EWM(1C) should not be applied under low temperature condition below 0°C.

CURING

Under normal climatic condition, around 3 – 4 hours air curing for ST-EWM(1C) is already proved to be adequate. When the weather is cold and/or humid, the setting time of ST-EWM(1C) may be prolonged. Full properties of ST-EWM(1C) for waterproofing can be attained within 3 days.

PACKAGE

20 kg pail

SHELF LIFE

ST-EWM(1C) has a shelf life of 12 months if well kept unopened in dry condition on lifted floor.







HEALTH & SAFETY

Wear NIOSH approved face mask or equivalent personal protective equipment when handling the material. ST-EWM(1C) may cause an allergic effect or irritation to eyes and skin. When contact with eyes, flush immediately with large quantity of water.

REFERENCE STANDARDS

- ◆ Hong Kong Standard: HKHA WAT6.M010.C

TECHNICAL DATA

 Colour	Grey / White
 Waterproofing quality	No sign of leakage or anomalies
 Compatibility with approved panel wall partition system	≥ 0.168 N/mm ²
 Compatibility with tile adhesive ST-TA(US)	≥ 950 N for 14 days in laboratory condition ≥ 560 N (7 days in laboratory condition, 7 days immersion in water)
 Pull-off Strength	≥ 0.8 N/mm ²
 Elongation properties	≥ 250% for ultimate elastic elongation

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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