

Elastic Waterproofing Membrane 555 (Formerly known as Elastic Waterproofing Membrane 2-Component ST-EWM(2C))

ST-EWM555

Two-component highly elastic waterproofing membrane with superior elasticity, waterproofing property and water resistivity suitable for using at interior and exterior waterproofing system.



PRODUCT DESCRIPTION

ST-EWM555 is a two-component membranous product with one part of cement-based powder and the other part of acrylic copolymer providing superior elasticity and waterproofing effect. The product has an excellent workability for application and provides high resistance to water ingress. Its superior elasticity also helps sustain tensile stress induced at the substrate and bridge minor cracks without degrading its waterproofing ability. By preventing ingress of moisture and carbon dioxide in the vicinity, ST-EWM555 helps eliminate risk of carbonation in aged concrete substrate. ST-EWM555 can be applied by either paint brush or roller.

SUBSTRATE PREPARATION

Ensure the substrate is clean, structurally sound and free of loose particles, oil, grease and other intrusion materials or residues that would affect the adhesion of ST-EWM555.

FEATURES & BENEFITS

- ◆ Highly hydrophobic with ultra-strong resistance to water ingress.
- ◆ Easy to apply with little wastage of material
- ◆ Ultra-high elasticity to sustain tensile stress induced and cover cracks at substrate
- ◆ Mitigating or eliminating risk of carbonation
- ◆ Largely reduce maintenance cost
- ◆ Short curing time

AREAS OF APPLICATION

- ◆ Sealing walls, floors and roofs at interior or exterior areas working with protections by suitable covering material
- ◆ Walls and floors in washrooms, bathrooms, kitchens, etc.
- ◆ Watertight structures (e.g. water tanks, swimming pools), balconies, terraces, etc.
- ◆ Protection of concrete from carbonation

MIXING & INSTALLATION

1. Mix the liquid part and powder part of ST-EWM555 with an electric auger type mixer in a suitable container for ~3 - 5 minutes until a lump-free homogeneous mixture is obtained.
2. A maximum of 0.6L clean water can be added to the mixture for minor adjustment of consistency to cater for workmanship needs in certain circumstances, especially under hot climate condition. (Such adjustment will not affect the waterproofing effect of the finished waterproofing membrane but may induce certain reduction in its elasticity and prolong the dry out time.)
3. ST-EWM555 can be applied on damp surface but not over stagnant or running water. Application of ST-EWM555 at ambient temperature below 5°C is not recommended.
4. ST-EWM555 can be applied by rolling or brushing to achieve the required thickness. At least two layers of ST-EWM555 applied in crisscross direction is recommended for full coverage of the substrate surface.
5. For details, please consult Score Tech Staff or refer to method statement.

CURING

Under good ventilation condition, allow ST-EWM555 to cure naturally for 7 days is normally adequate before conducting watertightness test or application of subsequent layer of material.

PACKAGE

One set of ST-EWM555 is packed with a 20 kg bag of powder and a plastic pail of 16 kg liquid.

SHELF LIFE

ST-EWM555 has a shelf life of 12 months when 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-EWM555 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

- ◆ American Standard: ASTM D412; ASTM D4541; USEPA Method 24
- ◆ Germany Standard: DIN 1048

PRODUCT INFORMATION

Colour	Grey
Surface Drying Time	< 4 hours
Pot Life	~ 1 – 2 hours
Coverage	~ 20 – 26 m ² / 2 coats / set (subject to substrate texture and condition)

PRODUCT PERFORMANCE

Tensile Strength	ASTM D412	≥ 1 MPa
Elongation at Break	ASTM D412	≥ 250 %
Pull-off Strength	ASTM D4541	≥ 0.5 MPa
Water Penetration Test	DIN 1048	0 mm
VOC Content	USEPA Method 24	< 10 g/L

* 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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