
ST-EWM555

Elastic Waterproofing Membrane

Easy to apply with little wastage of material

Highly hydrophobic with ultra-strong resistance to water ingress

High elasticity and flexibility

High crack bridging ability to cover minor cracks at substrate

Mitigating or eliminating risk of carbonation

Largely reduce maintenance cost

Short curing time



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ST-EWM555

Elastic Waterproofing Membrane

PRODUCT DESCRIPTION

ST-EWM555 is a non-exposed type 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 moderate 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.

AREAS OF APPLICATION

- Suitable for applying at walls and floors
- Interior wet areas (e.g., toilets, kitchens, etc.)
- Exterior areas and watertight facilities (e.g., balconies, eaves, swimming pools, terraces, etc.) with covering materials
- Protection of concrete from carbonation
- Consult Ardex Scoretech staff for other applications

SUBSTRATE PREPARATION

The substrate must be sound, even, well-aligned, clean and free from loose particles, oil, grease and other intrusion materials or residues that would affect the adhesion of ST-EWM555.

INSTALLATION

1. Mix the liquid part and powder part of ST-EWM555 with suitable mixer (e.g., electric auger type) in a suitable container until a lump-free homogeneous mixture is obtained.
2. 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.
3. ST-EWM555 should be applied in two layers by rolling or brushing. The two layers can be applied about 2 – 4 hours apart in normal weather and well-ventilated conditions. Layers of ST-EWM555 shall be applied in crisscross direction to ensure full coverage of the substrate surface.
4. For detailed application method, please refer to the method statement provided by Ardex Scoretech.

CURING

Under good ventilation condition, allowing ST-EWM555 to cure naturally for 3 days is normally adequate before conducting watertightness test. Application of subsequent layer of material can be proceeded after 7 days natural curing.

PACKAGE

Part A: 16kg liquid/bucket

Part B: 20kg powder/bag

SHELF LIFE

Unopened ST-EWM555 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

- American Standard (AS)
ASTM D412; ASTM D4541;
USEPA Method 24
- Germany Standard (DIN)
DIN 1048

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PRODUCT INFORMATION

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

PRODUCT PERFORMANCE

Tensile strength	ASTM D-412	≥ 1 N/mm ²
Elongation at break	ASTM D-412	≥ 250 %
Pull-off Strength	ASTM D4541	≥ 0.5 N/mm ²
Water Penetration Test	DIN 1048	0 mm
VOC Content	USEPA Method 24	< 20 g/L

* 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.