

Estoflex SM

High Performance Polymerised Instant Set Spray Waterproofing Membrane

Description

Estoflex SM is a polymer modified emulsion. The material is spray applied in conjunction with a water soluble catalyst through specially designed spray equipment.

It can be applied over damp surfaces and onto green concrete.

Estoflex SM has been tested by SIRIM BHD & Testech Sdn Bhd, in accordance to BS 1881 Part 122:1983, on Water Absorption Test; ASTM E96-00, on Water Vapour Transmission and complied with the specification in this data sheet.

Uses

Estoflex SM is a spray applied, seamless, polymer modified emulsion designed for a range of waterproofing applications including R. C. roof basement, underground structures and intricate details.

Can be used as bond upward membrane. (Contact ESTOP Spec Team for more specification and details)

Advantages

- Sets instantly on application.
- Forms a continuous (seamless) waterproof membrane.
- High bond strength.
- High elongation and flexibility.
- Rapid application rate.
- Applicable to damp surfaces.
- Priming coat is no required.

Standards Compliance

- **ASTM C156**
- **ASTM C309**
- **ASTM D412:90**
- **ASTM D624:73**
- **ASTM D2240**
- **ASTM E96-00**
- **BS 1881 Part 122:1983**
- **TAYWOOD METHOD**

Physical Properties

Form	Liquid
Solid Content, %	60
Density, kg/L	1.02
Ultimate Elongation, % ASTM D412-90	2000
Ultimate Tensile Strength, N/mm ²	0.12
Recovery from 350% Elongation, % ASTM D412-90	95
Modulus kN/mm ² ASTM D412-90	0.06
Tear Resistance, kN/m ASTM D624-73	1.53
Puncture Resistance, N (at maximum displacement) ASTM 154	10.5
Crack bridging capability, mm	1 – 2
Water Pressure Resistance	Negative – passes @ 10 m Positive – passes @ 70 m
Water Absorption, % BS 1881 Part 122	< 1.0
Shore A Hardness ASTM D2240	40 max
Water Vapour Transmission, g/m ² /day ASTM E96-00	< 21
Water Vapour Diffusion (S _D), m ASTM E96-00	< 0.20
Methance Diffusion, cm ² S-1	2.75 × 10 ⁻⁶
Chloride Ion Diffusion (Taywood Method)	NIL @ 120 days
Curing Efficiency ASTM C156 ASTM C309	>90% Pass
Chemical Resistance	Resistant to mild alkalis Resistant to mild acids Not resistant to solvents Nor resistant to oils

Application Instructions

Preparation

All surfaces shall be cleaned and free from dust, dirt oil, grease moss and other materials which may affect adhesion.

All ribs and protrusions must be removed and make good using Estop repair mortar.

Estoflex SM may be used on damp surfaces or applied onto green concrete. **Estoflex SM** will not bond when applied directly to permanently wet ponding substrates.

Priming

No priming coat is required for **Estoflex SM** waterproofing system.

Application

Estoflex SM is applied to the substrate using specifically designed spray application equipment. It is applied in a single coat by wet passes to give a minimum dry film thickness of 1.5 to 2.0 mm.

The material is applied from the lowest to the highest point on slow even strokes.

Overspray can be prevented by the use of baffle board or by masking off.

Protection

Estoflex SM membrane must be protected from traffic and backfill and weathering soon after application using Estop Fibreglass or needle punch, geotextile materials. Protective screed is needed for R.C. flat roof waterproofing.

Packing & Size

Estoflex SM	209 litre drum 20 litre pail
Estoflex SM Catalyst	20 litre pail

Coverage

Estoflex SM	0.33 to 0.44 m ² /litre
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Thickness

Estoflex SM with Estop Fibreglass	2.0 – 2.5 mm
Estoflex SM with needle punch geotextile	2.5 – 3.0 mm

Technical Support

Estop offers a comprehensive range of high performance, high quality of product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Storage

Estoflex SM should be stored on pallets in dry conditions. Under these conditions, the product will have a shelf life of 6 months.

Precaution

Estoflex SM should not be swallowed or in contact with skin and eyes. Wear suitable protective gloves and goggles.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Additional Information

Estop manufactures and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.

Important Note

Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.