

Estoflex MS600

High Performance, Methoxysilane Based Liquid Applied Waterproofing membrane

Description

Estoflex MS600 is a single component, functionalized polyether backbone with methoxysilane polymer waterproofing coating. It provides excellent performance in weatherability, heat resistance and chemical resistance.

Uses

To provide a better water and vapour proof in complicating application surface compare to membrane type and ensure better integrity between applied surfaces and waterproofing coating. Areas of application:

- Reinforced Concrete Roofs
- Metal Roof
- Waterproofing of terraces and balconies
- Roofing tiles

Advantages

- Environmental-friendly (can be applied indoor and outdoor)
- Stable under UV Exposure – No top coat required
- When fully cured, it forms a tough and flexible membrane, hence eliminating the need for a reinforcing layer.
- Able to withstand human traffic.
- Heat Dissipation Ability between 2-3 °C
- Crack bridging capabilities up to 1mm.
- Odorless

Physical Properties

Appearance	Liquid
Standard Colour	Grey
Solid Content, %	> 95
Elongation at Break, % ASTM D412	>400
Tensile Strength, N/mm ² ASTM D412	> 2.5
Water Absorption, % BS1881:Part 122	< 0.1
Adhesion to concrete at 25°C, N/mm ² ASTM D4541	> 1.2
UV Accelerated Weathering 1000 hrs exposure ASTM G154	No cracking, chalking, blistering or peeling decay and delamination
Cure Time, hrs	12 – 24
Touch Dry at 25°C, hrs	4 – 8
Recommended thickness (WFT)	1.5 ± 0.2 mm at 2 coats

Application Instruction

Surface Preparation

STEEL SURFACE: The steel surface must be dry, dry and free of all contaminants. Old coatings, rust, waxes, oils, etc. must be removed by mechanical methods, wire brushing, or abrasive blasting to SA 2 1/2. All blasted surfaces must be coated immediately or before visible rust occurs.

NEW CONCRETE: The surface must be firm, dry, clean, free of dirt, oil, grease, and all other foreign matter. The new concrete must age at least 28 days before coating. Mechanical methods such as scarifying, water jet cleaning, grinding, etc. should be carried out to remove the weak layer of surface laitance

EXISTING CONCRETE: The surface must be structurally sound, dry and free of all contaminants. Weak or contaminated concrete must be removed until sound concrete is realized. Old coatings, toppings, waxes, oils, etc. must be removed by mechanical methods as mentioned in New Concrete.

Primer

Estoprime LV is recommended to be applied as a primer before application of **Estoflex MS600** to ensure good bond strength.

Application

Pre-mix the material with slow speed mechanical stirrer for at least 1 minute.

Apply the first neat coat of **Estoflex MS600** on the prepared substrate surface with squeegee, roller or by spray method. Leave it to cure for 4 hours in between each coat. Recommended thickness is 1.5 mm in minimum 2 coats.

No dilution is allowed.

Protection

The applicator should also take precautions to protect the **Estoflex MS600** membrane from any mechanical damage during the construction of other works to be carried out directly on the **Estoflex MS600** membrane.

Packing & Size

Estoflex MS600	20 kg/pail
Estoprime LV	5L pack

Coverage

Estoflex MS600	1.7kg/ m ² / 2 coat Depend on porosity of substrate
Estoprime LV	4 – 6 m ² per liter Depend on porosity of substrate

Storage

Estoflex MS600 should be stored below 30°C out of direct sunlight and rain. All containers should remain sealed until ready to use.

Shelf life for this product is up to one year in unopened container and stored in a cool and dry place

Health and Safety

Proper PPE especially safety mask are to be worn during application. In case of eye splashes or excessive skin contact, wash thoroughly with clean water. If ill effects occur, seek medical attention immediately.

Technical Support

Estop offers a comprehensive technical support, including help at the design stage, application advice and on the site problem solving. Specifiers and contractors are encouraged to contact our trained staff for answers to their questions.

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.