

Estoflex GPS

High Performance Spray-able, Flexible Bitumen –Rubber Membrane

Description

Estoflex GPS is a one component rubberized bitumen liquid membrane. It is a spray-able and fast setting, cold-applied, solvent based, bituminous mastic. It dries to tough, yet flexible coating, which will not be easily damaged by rain due to rapid drying time.

Estoflex GPS has been tested by SIRIM BHD, in accordance to BS 1881 Part 122:1983, on Water Absorption Test and complied with the specification in this data sheet.

Uses

Estoflex GPS is designed for used as a vapour barrier, waterproof and protective coating. It is used in civil engineering and building construction, such as:-

- New R.C Roof & Re-roofing
- Basements slab and wall
- Ground water insulation / Wet rooms
- Foundation / Bridge abutment or pier
- Vapour barrier to cladding panels
- Retaining wall and tunnel

Advantages

- Ready to use & easy to apply
- Fast drying & waterproof
- Permanent flexibility
- Not harmful to environment
- Very good adhesion
- Low water vapour permeable
- Resistant to sulphate and ground salts

Standards Compliance

- **ASTM D412**
- **BS 1881**

Physical Properties

Colour	Black
Adhesion	Adhere well to most surfaces
Chemical Resistance	Resistance to dilute acids, alkalis and most salt solution.
Solid Content, %	65
Elongation at break, % ASTM D412	> 600
Tensile Strength, N/mm ² ASTM D412	> 2.0 (with Estop Geotextile)
Water Absorption, BS 1881 Part 122	< 0.5%
Heat Flow Resistance	The cured film will not flow or sag under direct sunlight.
Setting or Drying Time, hours	2 – 3 (Depends on environment temperature and humidity)

Application Instructions

Preparation

Substrate shall be free of dust, grease etc. before application.

All grooves, voids and honeycombs should be patched before the application of **Estoflex GPS**.

Application

(A) As a damp proof & protective coating

Estoflex GPS shall be applied with spray, brush, rubber squeegee or flat trowel.

The system is comprises of 2 neat coats at the rate of 1litre/m²/coat. The coating shall be dried before subsequent works.

(B) As a waterproofing and vapour proof system

Base Screed (for R. C. flat roof)

Base screed with minimum gradient of 1:120, to receive **Estoflex GPS**, shall be laid if the floor is uneven and without required gradient, to achieve better waterproofing performance.

Application of Estoflex GPS Waterproofing System

Estoflex GPS shall be applied with spray, brush, rubber squeegee or flat trowel.

Estoflex GPS shall be applied in 2 layers system.

First neat coat of **Estoflex GPS** shall be applied at the rate of 1 litre/m².

Whilst the neat coat is still wet, lay the Estop Fibreglass / Estop Geotextile reinforce fabric and allowed to dry.

Second neat coat of **Estoflex GPS** shall be applied after the first neat coat is dry, at the same rate and allowed to dry.

For better performance, a layer of approved **Fibre-reinforced** shall be laid whilst the first neat coat is still wet and allowed to dry.

Estoflex GPS waterproofing system shall be protected from physical damage and UV, with a layer of cement sand screed.

The cement sand screed is recommended to laid 35 – 50mm thick and in panel form. The panel joints shall be filled with **Estoliastic** sealant.

For non-trafficable roof, **Estoflex GPS** can be protected with a layer of heat reflective coating.

Packing & Size

Estoflex GPS	205 litre drum 18 litre pail
Estop Fibreglass	240 m ² roll
Estop Geotextile TS10	1000 m ² roll

Coverage

Estoflex GPS	1 litre/m ² /mm
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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 GPS should be stored on pallets in dry conditions. Under these conditions, the product will have a shelf life of 12 months.

Precaution

Estoflex GPS 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.