

Estoflex PU800

Moisture Cure Polyurethane, Elastomeric Liquid Applied Seamless Waterproofing Membrane

Description

Estoflex PU800 is a single component Polyurethane based liquid applied waterproofing membrane.

It cures by reaction with atmospheric moisture to form a tough elastomeric seamless waterproof membrane.

It is formulated for use on horizontal and vertical surfaces.

Estoflex PU800 has been tested by SIRIM BHD, in accordance to BS 1881 Part 122:1983, on Water Absorption Test and ASTM D412, on Elongation & Tensile Strength Test, and complied with the specification in this data sheet.

Uses

Estoflex PU800 provides a continuous, water and vapour proof membrane for concrete. It is suitable and being used at

- R.C. Flat Roofs / Suspended floors
- Balconies / Patios / Tunnels
- Bathrooms / Planter box / Lift pits
- Retaining walls / Basement wall

Advantages

- Highly flexible, over 800% elongation at break
- Seamless & single layer application possible
- No priming required, ready for immediate use (no mixing required)
- Capable of bridging substrate crack up to 3mm when fully cured at 1.3mm thick
- Withstands hydrostatic pressure of up to 15m head of water when fully supported

Standards Compliance

- **ASTM D412-90**
- **ASTM 2240-86**
- **ASTM D624-73**
- **BS 1881 Part 122:1983**

Physical Properties

Elongation at Break ASTM D 412-90	800 %
Tensile Strength, (N/mm ²) ASTM D412-90	> 0.5
Water Vapour Transmission, (g/m ² /d)	9
Water Absorption Test BS 1881 Part 122:1983	< 1 %

Application Instruction

Surface Preparation

All the surfaces must be clean, free from grease, oil, laitance, and remove all the dirt and contaminants, which might affect adhesion. The impurity outside the structure body should be cleaned thoroughly.

Any crack or water leakage area should be pre-treated and reinforced with Estop repair system (for more detail, please refer to our Technical Department) before the waterproofing.

For some difficult areas, such as the position of cracks, secondary joint right angle of wall and the boundary of water jacket shall be strengthened first with one layer of **Estoflex PU800**.

Right angle bends must have a cement/sand fillet installed prior to application of **Estoflex PU800**.

Base Screed (for R. C. flat roof)

Base screed with minimum gradient of 1:120, to receive **Estoflex PU800**, shall be laid if the floor is uneven and without required gradient, to achieve better waterproofing performance.

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Priming

For porous concrete substrate a mixture of 1 part Estoflex PU800 and 1 part xylene is used as primer before application of neat coat.

Application Methods

Estoflex PU800 can be sprayed or applied by brush, squeegee or roller. Apply to the minimum wet film thickness of 1.3mm. The newly applied membrane must be allowed to cure for minimum of 24 hours at 25 °C.

Tools and equipment should be cleaned with Estop Solvent No 10 immediately after use

Protection

The freshly applied waterproof membrane shall be protected from rain, dirt, oil grease or other loose materials during its drying time.

The contractor should also take precautions to protect the Estoflex PU800 membrane from any mechanical damage during the construction of other works. The protection shall be by laying of protective screed on floor and skirting or 25mm thick polystyrene board on vertical wall before back filling.

Packing & Size

Estoflex PU800	20 litre pail
Estoflex PU800	1.3 litre per m ² at 1.3mm thick

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 PU800 should be stored in original unopened packaging in dry conditions under ambient room temperature.

Under these conditions, the product will have a shelf life of 12 months.

Shelf life may reduce if stored in extreme heat locations.

Precaution

Ensure adequate ventilation when applying Estoflex PU800. Wear impervious gloves and barrier cream if user is sensitive to resin system. Wear eye protection.

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.