

# Estoflex PU900

## High Performance, Single Component, Low VOC Polyurethane Exposed Waterproofing Membrane

### Description

**Estoflex PU900** is a flexible single component low VOC polyurethane exposed waterproofing and sealing membrane with Ultra Violet resistant for external application on wall and roof.

**Note: To apply Estoflex TC60 as top coat for UV resistant and color stable properties. (Refer Estoflex TC60 product data sheet for more information)**

### 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
- Hollow core concrete roof
- Cement screed flat roof

### Advantages

- Suitable for external areas on wall and roof with Ultra Violet Resistant.
- Environmentally friendly product with low VOCs content.
- When fully cured, it forms a tough and flexible membrane, hence eliminating the need for a reinforcing layer.
- Able to withstand human traffic.
- Ease of application.

### Physical Properties

Appearance	Liquid
Standard Colour	Grey / Green
Solid Content, %	> 95
Elongation at Break, % ASTM D412	650 ± 100
Tensile Strength, N/mm <sup>2</sup> ASTM D412	3.0 ± 0.5
Water Absorption, % BS1881:Part 122	< 0.1
Adhesion to concrete at 25°C, N/mm <sup>2</sup> ASTM D4541	> 1.2
Crack Bridging, mm ASTM C836	No crack at 2mm width
UV Accelerated Weathering 1000 hrs exposure ASTM G154	No cracking, chalking, blistering or peeling decay and delamination
Shore 'A' Hardness	> 40
Cure Time, hrs	12 – 24
Touch Dry at 25°C, hrs	4 – 8
Recommended thickness (WFT)	2 coats at 1.5 ± 0.2 mm

### 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

No primer is required. However if the substrate is rough and porosity is high, **Estoprime LV** is recommended to be applied before application of **Estoflex PU900** to ensure good bond strength.

#### Application

Turn the **Estoflex PU900** tin upside down before open. Pre-mix the material with slow speed mechanical stirrer for at least 1 minute.

Apply the first neat coat of **Estoflex PU900** on the prepared substrate surface with squeegee, roller or by spray method. Leave it to cure for 12 hours in between each coat. Recommended thickness is 1.5 mm in minimum 2 coats.

For exposed area application, **Estoflex TC60** shall be applied as a top coat protection for **Estoflex PU900**.

#### Protection

The applicator should also take precautions to protect the **Estoflex PU900** membrane from any mechanical damage during the construction of other works to be carried out directly on the **Estoflex PU900** membrane.

#### Important Note

Ensure adequate ventilation is provided when doing work internally.

### Packing & Size

<b>Estoflex PU900</b>	22kg (approx.18L) tin
<b>Estoflex TC60</b>	18kg set
<b>Estoprimer LV</b>	5L pack

### Coverage

<b>Estoflex PU900</b>	14 – 15 m <sup>2</sup> / 22kg / 2 coats Depend on porosity of substrate
<b>Estoflex TC60</b>	0.2 – 0.3 kg / m <sup>2</sup> / coat At 20 – 30 microns thickness (WFT)
<b>Estoprimer LV</b>	4 – 6 m <sup>2</sup> per litre Depend on porosity of substrate

### Storage

**Estoflex PU900** material should be stored below 30°C out of direct sunlight and rain. All containers should remain sealed until ready to use.

Up to one year in unopened container and stored in a cool and dry elevated place.

### Shelf Life

Up to one year in unopened container and stored in a cool and dry elevated 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 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.

### Additional Information

Estop manufactures and offers a wide range of complementary products which includes waterstops, waterproofing 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.*