

# Estoflex PU800

## Single Component Polyurethane Elastomeric Waterproofing Membrane (Non-Expose Type Waterproofing Resin)

### Description

**Estoflex PU800** is an excellent performance premium single component elastomeric pure polyurethane waterproofing membrane.

It has high pure polyurethane solids content of more than 90% which produce an excellent quality and performance to meet all waterproofing application on concrete structures.

Low volatile organic compounds (VOCs Content) of <50 g/L can be qualify as environment friendly product.

### Uses

**Estoflex PU800** designed to use as a conceal waterproofing system in both internal and external application.

- Reinforced Concrete Flat Roofs
- Waterproofing of terraces, planter boxes, balconies
- External tanking of basements, swimming pool decks and retaining walls
- Below grade floors and walls slabs
- Base screed

### Advantages

- Applied direct from pail with rollers, brush or spray
- Highly flexible to withstand movement and bridge hairline crack
- Pure polyurethane will produce high tensile and tear strength for a tough and flexible finish to withstand human traffic
- Resistance to chemicals and bacterial growth
- Fast dry time of 2 – 3 hours at 25 – 30 °C

### Physical Properties

Composition	Polyurethane
Colour	Black
Density, kg/m <sup>3</sup>	1.2 – 1.3
Solid Content, %	> 90
Tensile Strength, N/mm <sup>2</sup>	> 1.0
Elongation at Break, %	> 500
Adhesion to concrete, N/mm <sup>2</sup>	> 1.0
Shore A Hardness	30 – 40
Touch Dry (at 25 °C at 65% R.H), hours	2 - 3
Cure Time, hours	12 – 24
VOC Content, g/L	< 50

### Application Instructions

#### 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.

#### 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 PU800** to ensure good bond strength.

#### Application Methods

Apply at least 2 coats of **Estoflex PU800** by roller, trowel, squeegee or brush. Allow the first coat to dry before application of second coat.

The newly applied membrane must be allowed to cure for minimum of 24 hours at 25 °C.

Tools and equipment should be cleaned with xylene 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

<b>Estoflex PU800</b>	22 kg metal pail
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### Coverage

<b>Estoflex PU800</b>	1.5 kg per m <sup>2</sup> for 2 coats application to achieve 1.2 - 1.4 mm wet film thickness
	14 m <sup>2</sup> per 22 kg pail subjected to actual site condition

### 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.

### Reminder

Once opened, **Estoflex PU800** chemical reaction will commence and **Estoflex PU800** is recommended to be used entirely within the stipulated touch-dry time period.

Any unused leftovers in the pail may not exhibit the same technical properties as stated above and should be disposed according to proper regulations under environmental law.

### Precaution

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

For confined areas whereby ventilation is limited, DO NOT use **Estoflex PU800**. Waterbased system **Estoflex PU850** is recommended to be used as a replacement.

### 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.*