

## Estoflex PU770

### Single Component, Water based Polyurethane-Acrylic Waterproofing Membrane

#### Description

**Estoflex PU770** is a Polyurethane-Acrylic hybrid water-based dispersion specially designed for superior weather-proofing and water-proofing applications. **Estoflex PU770** cures to a flexible seamless membrane that has good adhesion to a wide range of substrates.

**Estoflex PU770** will form a dense membrane layer with good elongation properties to be able withstand concrete movements, water-impervious, good ponding, water-resistance and UV resistant.

#### Uses

**Estoflex PU770** can be use on R.C. roof, basement, walls, tunnels, concrete tanks, R.C gutters, slab, bridges, bathroom floors, terraces, balconies and any cementitious substrates where an elastomeric membrane is required.

#### Advantages

- Excellent crack-bridging properties.
- Good elongation properties, >200%
- Can be applied directly to concrete and masonry.
- Eco-friendly, low odour and non-toxic.
- Easy to apply and workability.

#### Physical Properties

Appearance	Liquid
Colour	Grey
Solid Content, %	60
Density, kg/L	1.50 ± 0.1
Elongation at Break, % ASTM D412	> 200
Tensile Strength, N/mm <sup>2</sup> ASTM D412	> 1.0
Adhesion to concrete at 25°C, N/mm <sup>2</sup> ASTM D4541	> 1.0
Water Absorption, % BS1881:Part 122	< 1.0
Drying Time at 28°C, hrs	
Touch Dry	2 – 4
Re-coat	4 – 8
Cure Time	24
Coverage	1.3 kg / m <sup>2</sup> / 2coats

#### Application Instruction

##### Surface Preparation

All surfaces must be firmed, clean and free of dirt, oil, grease, laitance, old membranes, loose or excess mortar and all other foreign matter. Repair any damaged honeycomb or cracked substrates before apply **Estoflex PU770**.

##### Priming

Apply **Estoflex PU770**, diluted with 10% clean water, a generous coat and allow primer coat to dry. Apply in dry weather only. If substrate is wet during application, the performance will be affected.

##### Application

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

Apply the first neat coat of **Estoflex PU770** on the prepared substrate surface with brush or roller. Leave it to dry for 4 - 8 hours in between each coat. Recommended thickness of DFT is approximately 1.0 mm in minimum 2 coats.

##### Optional

Inter-layer using Estop Fiberglass or Estop CSM100 is strongly recommended to reinforce areas where further protection against further cracks in the concrete is required.

##### Protection

- During the drying period, the layer must be protected from rain, dirt, oil, grease, loose materials and from mechanical damage during other works carried out.
- Do not apply when rain is imminent. Estoflex PU770 will be resistance to rain once fully cured. To ensure trouble free curing, carry out work in dry weather when possible.
- Dead flat roofs almost invariably collect puddles. Level the undulation before application.

##### Packing & Size

<b>Estoflex PU770</b>	20 kg / pail
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##### Coverage

<b>Estoflex PU770</b>	1.3kg / m <sup>2</sup> / 2coats Depend on porosity of substrate
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## Storage

**Estoflex PU770** material should be stored below 30°C out of direct sunlight and rain. All containers should remain sealed until ready to use.

## 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 is 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

Denka 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

**Denka Construction Solutions Malaysia Sdn Bhd** 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.



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