

Estoflex PU850

High performance Moisture Cured Polyurethane Elastomeric Liquid Applied Seamless Waterproofing Membrane

Description

Estoflex PU850 is a single component which is newly developed polymer of MMA, natural rubber, and polyurethane form elastic waterproof membrane.

Estoflex PU850 has been tested in accordance to ASTM D412, on Elongation & Tensile Strength Test, and complied with the specification in this data sheet.

Uses

To provide a better water and vapour proof in complicating application surface compared to membrane type and ensure better integrity between applied surfaces and waterproofing coating. Areas of application:

- Ground and suspended floor slabs
- Terraces and balconies
- Patios
- Bathrooms and kitchens
- RC gutters and planter boxes
- Swimming pools and fountains
- Water tanks
- Basements and floor and walls
- Retaining walls
- RC roof deck

Advantages

- Ease of application directly from container.
- High elasticity.
- Super adhesive strength.
- Can apply directly on damp or wet surfaces.
- Seamless membrane
- Application follows contour of irregular surface
- Non-toxic.

Standards Compliance

- **ASTM D412:2016**
- **BS 1881 Part 122**
- **BS EN 1542:1999**

Physical Properties

Colour	Black once dried
Elongation at Break, % ASTM D412:2016	> 480
Tensile Strength, MPa ASTM D412:2016	1.00 ± 0.2
Water Absorption Test BS 1881 Part 122	< 0.50 %
Pull-Off Bond Strength, N/mm ² BS EN 1542:1999	1.00 ± 0.5

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 PU850**.

Right angle bends must have a cement/sand fillet installed prior to application of **Estoflex PU850**.

Priming

For porous concrete substrate, a mixture of 1-part **Estoflex PU850** with 1 parts of clean water is used as primer before application of neat coat.

Application

Apply the first neat coat of **Estoflex PU850** on the substrate surface with brush, roller or by spray method. Leave to cure for approximately 8 hours before applying second neat coat.

A total of two neat coats shall be applied.

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Curing

For optimum performance, **Estoflex PU850** should be allowed to cure for 12 hours before installing other finishing works, such as tiling, screeding etc and during this period precaution must be taken in order to prevent damaging to the coating.

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 PU850** 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 PU850	20kg pail
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Coverage

Estoflex PU850	~ 1.5kg / m ² / 2coats depends on porosity of surface
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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.

Storage

Estoflex PU850 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

Wear impervious gloves and barrier cream if user is sensitive to resin system. Wear eye protection.

Additional Information

Denka Construction Solutions Malaysia Sdn Bhd 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.



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