

Estoflex GP

Flexible Bitumen – Rubber Membrane

Description

Estoflex GP is a one component rubberized bitumen emulsion sealing membrane. It is easy to apply, free of solvents and plasticizers compound. **Estoflex GP** is an elastic watertight membrane.

Estoflex GP has been tested by SIRIM BHD, in accordance to BS 1881 Part 122:2011, on Water Absorption Test complied with the specification in this data sheet.

Uses

Estoflex GP is designed for used as a damp proof membrane, vapour barrier, waterproof and protective coating. It is used in all cases where leaking and humidity are distressing the construction, waterproofing in civil engineering and building construction, such as: -

- New R.C Roof & Re-roofing
- Basements wall
- Ground water insulation / Wet rooms
- Foundation / Bridge abutment or pier
- Damp proof sandwich membrane in concrete floors
- Vapour barrier to cladding panels
- Repairing the cracks and crazing in asphalt surfaces < 5mm. If otherwise, Estojoint or Estoliastic sealant should be used.
- Retaining wall and tunnel

Advantages

- Ready to use & easy to apply
- Fast drying & waterproof
- Free of solvents / Non flammable
- Permanent flexibility
- Not harmful to environment
- Very good adhesion
- Low water vapour permeable
- Can be applied to green concrete
- Resistant to sulphate and ground salts

Standards Compliance

- **BS 1881 Part 122:2011**

Physical Properties

Water Absorption, BS 1881, Part 122	<1.0%
Heat Resistance @100°C	no sagging, no sagging or blistering
Cold Resistance	>20°C
Softening Point (Ring and Ball Method)	>120°C
Colour	Brown-black (before drying)
Emulsion	Non-ionic
Specific Gravity @25°C	1.00-1.05
Solid Content, %	47-55
Storage Temperature	5°C to 40°C
Application Temperature	Min +5 °C and Max +40 °C
Drying Time (20°C + 60%RH)	4 – 6 hours

Application Instructions

Preparation

Substrate shall be free of dust, grease before application.

Application is eased by dampening the applicator tool before and during use.

All grooves, voids and honeycombs should be patched before the application of **Estoflex GP**. Repair any damaged or cracked substrates.

Stir well before using.

Estoflex GP can be applied on damp surface with no standing water.

Application

(A) As a damp proof & protective coating

Estoflex GP shall be applied with brush, rubber squeegee or flat trowel.

Firstly, apply one priming coat (1 part water to 1 part of **Estoflex GP**) at the rate of 0.30 kg/m².

First neat coat of **Estoflex GP** shall be applied at the rate of 0.70kg/m², after the priming coat is dried.

Second neat coat of **Estoflex GP** shall be applied at the same rate and allowed to dry. The coating shall be dried before subsequent application.

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(B) As a waterproofing and vapour proof system

Base Screed (for R. C. flat roof)

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

Application of Estoflex GP Waterproofing System

Estoflex GP shall be applied with brush, rubber squeegee or flat trowel.

Firstly, apply one priming coat (1 part water to 1 part of **Estoflex GP**) at the rate of 0.30 kg/m².

First neat coat of Estoflex GP shall be applied at the rate of 0.70kg/m², after the priming coat is dried. Whilst the neat coat is still wet, lay the Estop CSM100 chopped strand mat and allowed to dry.

Second and third neat coat of **Estoflex GP** shall be applied at the same rate and allowed to dry.

(C) Cement sand protective panel for trafficable roof (optional)

A layer of 35 – 50mm thick protective screed in panel form is recommended. The panel joints shall be filled with Estoliastic sealant.

Panel size is recommended to be 1m x 1m. Reinforced with BRC is essential.

Packing & Size

Estoflex GP	20 kg pail 200 kg drum
Estop CSM100	288 x 1.04m per roll

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 GP should be stored on pallets in dry conditions and under cover. Under these conditions, the product will have a shelf life of 12 months in unopened containers.

Precaution

Estoflex GP should not be swallowed or in contact with skin and eyes. Wear suitable protective gloves and goggles.

Splashes on the skin should be removed with water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Estoflex GP can be added and mix with clean water (not more than 1 kg of clean water to 20 kg **Estoflex GP**) if it is too thick and difficult for application.

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.



Denka Construction Solutions Malaysia Sdn Bhd
(591858-U)

No. 18, Jalan Utas 15/7, Seksyen 15,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +603 5510 8810 Fax: +603 5518 8202

www.denka-cs.com

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