

# 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.

### 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 surface <5mm. If otherwise, Estojoint or Estolastic 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
- Applicable on fresh concrete
- Low water vapour permeable
- Can be applied to green concrete
- Resistant to sulphate and ground salts

### Standard Compliance

- **BS 1881 Part 122:1983**
- **ASTM D412**

### Physical Properties

|  |                             |
|--|-----------------------------|
| Tensile Elongation<br>ASTM D412        | >600%                       |
| Water Absorption,<br>BS 1881, Part 122 | <1.0%                       |
| Heat Resistance                        | <100°C sagging              |
| Cold Resistance                        | >20°C                       |
| Softening Point (R+B)                  | >120°C                      |
| Form                                   | Pasty, thytrotrophic        |
| Colour                                 | Brown-black (before drying) |
| Specific Gravity                       | 1.02 – 1.08 kg/liter        |
| pH Value                               | 10 - 12                     |
| Solid Content                          | 60%                         |
| Storage Temperature                    | Not below freezing point    |
| Application<br>Temperature             | Min +5°C                    |
| Drying Time (20°C +<br>60%RH)          | 4 – 6 hours                 |
| Fully Dried (up to 1.3mm<br>thick)     | <2 days                     |

### Application Instruction

#### Preparation

Substrate shall be free of dust grease and pre-wet with water before application.

All grooves, voids and honeycombs should be patched before the application of **Estoflex GP**.

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

**Estoflex GP** should not be applied on surfaces containing live leaks. Arrest all existing water leaks from the surface using **Estop Waterplug**.

#### Application

##### (A) As a damp proof & protective coating

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

The system is comprises of one priming coat (30% water to 70% **Estoflex GP**) and two neat coats. The coating shall be dried before subsequent application.

Firstly, apply one priming coat with dosage 0,35kg/m<sup>2</sup> Continues 2 layer coat of Estoflex GP shall be applied at the rate of (0,75 – 0,90 kg/m<sup>2</sup>), after the priming coat is dried.

**(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 (30% water to 70% of **Estoflex GP**) at the rate of 0,35kg/m<sup>2</sup>

First neat coat of Estoflex GP shall be applied at the rate of (0,75 – 0,90 kg/m<sup>2</sup>), after the priming coat is dried. Apply second coat after first coat is dried. To reinforce the coating at the corners and edges, a woven fabric made of fiberglass, polyester or polypropylene can be placed on the freshly applied first coat.

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

**(C) As Primer for Waterproofing bitumen membrane and shelf adhesive membrane**

Application of Estoflex GP as primer shall be applied with brush, rubber squeegee or flat trowel

Dosage for waterbase primer – Estoflex GP is apply at the rate of 0,35 kg/m<sup>2</sup> ( with ratio 30% water to 70% of Estoflex GP) , depending on the porosity of the surface, and allowed to dry completely before application.

**Curing**

**Estoflex GP** is self curing. Drying of the product depending on the ambient conditions. Check drying by slightly pressing the thumb onto the surface and twisting. If the twisted surface returns to original position without breaking or sticking to the thumb, it confirms a dried surface.

**Estoflex GP is non exposed material  
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 Rev04Tech/HT/8/24 not in accordance with any advice, specification, recommendation or information given by it.*

**Packing & Size**

|                    |                           |
|--------------------|---------------------------|
| <b>Estoflex GP</b> | 200 kg drum<br>20 kg pail |
|--------------------|---------------------------|

**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 GP** should be stored on pallets in dry conditions. Under these conditions, the product will have a shelf life of 12 months.

**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 litre of clean water to 20 kg **Estoflex GP**) if it is too thick and difficult for application.

**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 .