

# Estorex EPS

## High Strength, Epoxy Resin Grout

### Description

Estorex EPS is a solvent free epoxy resin grout designed for grouting of gap widths of 10 to 75 mm. It is supplied as a three component system consisting of base, hardener and specially graded aggregate. The components are supplied in the correct mix proportions designed for whole pack mixing on site.

**Estorex EPS has been tested in accordance to BS 4551, on Compressive Strength; ASTM C307-03, on Tensile Strength Test; ASTM C348-02, on Flexural Strength Test, and complied with the specification in this data sheet.**

### Uses

Estorex EPS is a free flowing epoxy grout, for use where physical properties and chemical resistance of the hardened grout are of utmost importance. It is suitable for a wide range of heavy duty applications including:

- Under plate grouting to substantial structural elements.
- Heavy industrial applications in steelworks, refineries chemical plants and electroplating works.
- Base plate grouting in dynamic load situations such as turbines and other reciprocating machinery.
- Structural infill where very high strength is required.
- Heavy cranes, or on transporter rails, or rail track support.

### Advantages

- Excellent durability - high compressive, flexural and tensile strengths ensure a long working life.
- Cost effective - high early strength gain promotes minimum downtime and early commissioning of plant.
- User friendly - simple, full pack mixing to ensure that the performance characteristics are achieved.
- Versatile - suitable for a wide range of loading situations including repetitive dynamic loads.
- Excellent in service performance - non-shrink capability ensures full surface to surface contact.

### Standards Compliance

- ASTM C307 - 03
- ASTM C348 - 02
- ASTM C531
- BS4551

### Physical Properties

Pot Life, mins 30°C 23°C	30 – 45 120 – 180	
Tensile Strength, N/mm <sup>2</sup> (ASTM C307-03) 7 Days	> 14	
Flexural Strength, N/mm <sup>2</sup> (ASTM C348-02) 7 Days	> 26	
Compressive Strength, N/mm <sup>2</sup> (BS 4551) 1 Day 3 Days 7 Days	25 °C	30 °C
	80	90
	90	95
	100	101
Maximum flow distance (mm) for a head of 100 mm at 20°C 35 mm gap 70 mm gap	2000 3500	
	Coefficient of thermal Expansion (ASTM C531)	
		28.1 × 10 <sup>-6</sup>



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### Application Instructions

#### Preparation

Prepare concrete surface by scrubbing, wire brushing and blow out Under plate grouting

The unrestrained surface area of the grout must be kept to a minimum. Generally, the gap between the perimeter formwork and the plate edge should not exceed 75 mm on the pouring side and 25 mm on the opposite side.

Formwork on the flank sides should be kept tight to the plate edge. Air pressure relief holes should be provided to allow venting of any isolated high spots.

#### Formwork

The formwork should be constructed to be leak proof as Estorex EPS is a free flow grout. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints. For free flow grout conditions, it is essential to provide a hydrostatic head of grout. To achieve this feeding hopper should be used - please consult your local Estop office for more details.

#### Foundation surface

This must be free from oil, grease, or any loosely adherent material. If the concrete surface is defective or has laitence, it must be cut back to a sound base. Bolt holes or fixing pockets must be blown clean of any dirt or debris.

#### Base plate

If delay is likely before placing steel base plates, it is recommended that the underside and edge are coated with Estop Primer E11 to prevent rust formation and ensure bonding with the Estorex EPS grout. All metal surfaces should be cleaned to a bright finish in accordance with Swedish Standard SA 2½ or equal. Estop Primer E11 can be applied directly onto newly cleaned steel surfaces even if they are damp.

#### Mixing

The entire contents of the hardener should be poured into the base container and mixed until homogeneous. Place the mixed base and hardener into a suitable forced action mixer making sure that the entire volume is poured in. Add the aggregate and mix for 2-3 minutes or until uniform colour is achieved. Once mixed, the material must be used within the specified pot life. After this time, unused material will have stiffened and should be discarded.

### Placing

Ensure that the grout can be placed within its pot life and the substrate is dry. Continuous grout flow is essential. Sufficient grout must be available prior to starting and the time taken to pour a batch must be regulated to the time taken to prepare the next one. Pouring should be from one side of the void to eliminate air entrapment. The hydrostatic head must be maintained at all times so that a continuous grout front is achieved.

### Packing & Size

Estorex EPS	25 kg bag
Estop Primer E11	200 mL pack

### Coverage

Estorex EPS	1 m <sup>2</sup> / 8 mm thick / 8 litre pack
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### Technical Support

Estop offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

### Storage

Estop BJ Transitional Strip has a shelf life of 12 months, if stored in a cool and covered condition.

If stored in extreme heat locations the shelf life may be reduced.

### Precaution

#### Health and safety

The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of clean water and seek medical treatment immediately.

Estop Primer E11 is flammable.

### 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.*