

Estobond EC

Thixotropic Epoxy Bonding and Sealant

Description

Estobond EC is a two component, solvent free epoxy resin system consisting of a mixed grey resin and hardener in pre-measured quantities for easy on-site mixing. **Estobond EC** has been specially formulated to meet the requirements for bonding prefabricated concrete elements, such as bridge segments.

Uses

Estobond EC is used for bonding prefabricated concrete segments to provide a structural and water resistant joint. **Estobond EC** is also suitable as sealant for epoxy crack injection and a gap filling paste, grouting of starter bars, holding down bolts, etc, where a paste consistency materials is required.

Advantages

- Excellent adhesion to concrete, steel and most construction materials
- High strength, gives high physical properties.
- Non-sag, thixotropic easy to apply
- Easy to mix and use

Properties

Color of mixed material	Dark grey Thixotropic
Specific gravity (mixed) JIS K7112	1.8 ± 0.1 kg/liter
Compressive Strength ASTM D695 7 days	>60 N/mm ²
Flexural Strength, JIS K7203	>40 N/mm ²
Tensile Strength JIS K7113 - 1995	>20 N/mm ²

Modulus Elasticity BS 6319	5.400 N/mm ²
Shear bond strength JIS K6850	>11 N/mm ² (Concrete Failure)
Pot life, 25C	60 min

Application Instructions

Surface Preparation

All surfaces to be treated must be firm, dust-free and clean. All laitance should be removed mechanically. The surface should be washed thoroughly with clean water and all traces of surface water removed.

Mixing

Estobond EC is supplied in pre-measured quantities with a total volume of 5 kgs. Add all the curing agent (clear) to the dark grey resin and mix thoroughly. Mixing should be continued until an even grey colour, free from streaks is obtained.

Application

The mixed adhesive may be applied by spatula. Serrated trowel or glove protected hand depending upon the size and shape of the job. The mixed epoxy must be used within its specified pot life and all mating surfaces must be brought together within the contact time.

The **Estobond EC** should be used immediately after mixing or the pot life can be prolonged by spreading the mixed adhesive into a thin layer (less than 20 mm). This will allow any exotherm to be dissipated.

Cleaning

All tools and equipment should be cleaned immediately after use. Hardened adhesive can only be removed mechanically.

Packing & Size

Estobond EC

5 kgs set

Coverage

Estobond EC

1 m²/liter at 1 mm thickness These figures are for guidance only. Actual coverage will depend on the texture and porosity of the surface being covered.

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-user and contractors, as well as on site technical assistance.

Storage

Estobond EC should be stored on pallets in cool and dry conditions. The product shelf life is of 12 months. It shall be protected from high humidity and extreme heat.

Precaution

Contact with the skin must be avoided. Gloves and barrier cream should be used when handling these products. If contact with the resin occurs, the skin should be washed immediately with soap and water. Eye contamination must be immediately washed with copious quantities of water and medical treatment sought. Working areas should be well ventilated.

Estobond EC is non 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

Rev 03/tech/5/24

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.