

# StrongBond ECX

## Thixotropic Epoxy Bonding and Sealant

### Description

**StrongBond ECX** is a product of two component, solvent free epoxy resin system consisting of a mixed grey resin, filler and thixotropic agent and curing agent in pre-measured quantities for easy mixing on site. **StrongBond ECX** is specially formulated to meet the requirements for bonding prefabricated concrete elements, such as segmental bridge segments as well as sealant for epoxy injection works.

### Uses

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

### Advantages

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

### Standard Compliance

ASTM C881M Standard Specification for Epoxy-Resin *Bonding* Systems for Concrete

### Physical Properties

Colour of mixed material	Dark grey Thixothropic
Specific gravity (mixed)	1.8 ± 0.1 kg/liter
Shrinkage	No shrink
Compressive Strength	68 N/mm <sup>2</sup>
Flexural Strength	35 N/mm <sup>2</sup>
Adhesion to Concrete	>3 N/mm <sup>2</sup> (Concrete failure)
Pot life	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

**StrongBond ECX** 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.

**StrongBond ECX** 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.

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### Cleaning

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

### Packing & Size

#### StrongBond ECX

5 kgs set (Base 4 kg and Hardener 1kg)

### Coverage

#### StrongBond ECX

1 m<sup>2</sup>/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

Estrong offers produce and sell wide range of 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

**StrongBond ECX** 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.

**StrongBond ECX** is non flammable.

### Additional Information

Estrong 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.