

StrongGrout E100X

Ultra High Strength, Non-shrink Epoxy Grout

Description

Strong Grout E100X is ultrahigh strength – solvent free epoxy resin grout designed for grouting of special applications required very high strength. It is a three component system consisting (base, hardener and specially graded aggregate) packed in 1 bag, ready to use for quick applications.

StrongGrout E100X may be applied from thickness of 10 mm – 100 mm without any problem.

Standard compliance : it is tested in accordance to ASTM, on Compressive Strength; ASTM C579, on Tensile Strength Test; ASTM D638, on Flexural Strength Test ASTM C580.

Uses

StrongGrout E100X is a free flowing epoxy grout, for use where ultimate 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, such as heavy crane/
- Heavy industrial applications in steelworks,
- Refineries chemical plants and other heavy machine plants.
- Base plate grouting in dynamic load situations such as turbines and other reciprocating machinery.
- Structural where very high strength is required.
- Heavy cranes, or on transporter rails, or rail track support.

Advantages

- Excellent adhesion substrate.
- Very high early and late strength, gives high physical properties and minimize down time for repair works.
- Flowable, very easy to apply
- Non shrink, low heat when setting even at thick applications.

Standard Compliance

- ASTM C 579
- ASTM C 580
- ASTM D 638

Physical Properties

Colour of mixed material	Dark grey
Density (mixed)	2.10 ± 0.05 kg/liter
Mixed peak exotherm	37.0 °C
Compressive Strength ASTM C579 @ 25 °C 3 hours 1 day 3 days 7 days	45 N/mm2 85 N/mm2 95 N/mm2 105 N/mm2
Flexural Strength ASTM C580	32 N/mm2
Tensile Strength ASTM D638	18 N/mm2
Modulus Elasticity ASTM C580	34,000 N/mm2
Adhesion To concrete To steel	> 3 N/mm2 (G 70 MPa failure) > 5 N/mm2
Shrinkage ASTM C 531	0.040 %

Application Instructions

Surface Preparation

All contact surfaces to be treated must be firm, dust-free and clean. All laitance should be removed mechanically. Drill the hole using core drill or other type of drilling method.

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.

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Mixing

StrongGrout E100X is supplied in pre-measured quantities with a total volume of 20 kgs. Add all the curing agent to the resin and mix thoroughly for about 1 minute. Add slowly powder part while mixing until all powder quantity added. Mixing should be continued until an homogenous.

Application

Ensure the mixed 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.

StrongGrout E100X should be used immediately after mixing within the pot life

Cleaning

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

Packing & Size

StrongGrout E100X

20 kgs set (3 kg Base, 1 kg Hardener and 16 kg filler)

Yield

1 set (20 kg) of **StrongGrout E100X** will have result of 9.5 ltr mixed grout.

Technical Support

Estrong 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

StrongGrout E100X should be stored on pallets in cooland 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.

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 or repair and refurbishment of spalled concrete are available.