

Top Grout EP

Low exotherm, flowable epoxy resin grout

PRODUCT DESCRIPTION

TOP Grout EP is a solvent free three component system consisting of Resin, Hardener and specially graded inert fillers. It is a low exothermic material to suit for injection grouting where long working time is needed, to produce a high viscosity flowable grout suitable for voids of 50-175mm and for grouting at high ambient temperatures up to 50°.

USES

TOP Grout EP is used for structural anchoring of bolts, inserts and reinforcement. Deep foundation grouting, transport and crane rail anchoring/grouting, high strength support of rotating machinery, support of mobile equipment, precision grouting of mining equipment and structural concrete repairs.

ADVANTAGES

- High bond strength Tenacious adhesion to prepared surfaces and requires no priming.
- Low exothermal properties with early strength development.
- Excellent adhesion to steel.
- High abrasion and chemical resistance.
- Permanent support for machinery requiring precision alignment.
- Non-shrink and hence ensures complete surface contact and bond.
- High compressive, tensile and flexural strengths withstand a wide range of chemicals.

COVERAGE

TOP Grout EP is available in a three-component kit of 20 kg which yields when mixed 8.7 liters.

TECHINICAL PROPERTIES

Color & Appearance	Grey Liquid
Bond Strength	> 2Mpa
Compressive Strength @ 7 days	95 Mpa
Flexural Strength @ 7 days	35 Mpa
Tensile Strength @ 7 days	12 Mpa
Setting Time	2 hours
Density	2.4 kg/l
Pot life @ 25 ⁰ C @ 40 ⁰ C	50 Minutes 25 Minutes
Application Temperature	10°C - 40°C
Mix Ratio	2.5+0.83+16.67

PACKING

TOP Grout EP system available in 20 kg kit comprising Part A (2.5 kg) , Part B (0.83 kg) , Part C (16.67 kg).

STORAGE

12 Months in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost, Empty packs completely and dispose off carefully to protect our Environment.

APPLICATION PROCEDURE

SURFACE PREPARATION: Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae. All metal components to be in contact with grout must be free of rust, paint, or oil should be removed by etching with solvent and wire-brushing. In some cases, the existing concrete must be chipped to a sound substrate.

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 Suggested that, for temperatures above 30°C, the following should be kept tight to the plate edge. Air pressure relief holes should be provided to allow venting of any isolated high spots.

Formwork:

TOP Grout EP is a free flow grout; the form work constructed must be leak proof. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed form work and between joints. For free flow grout conditions, it is essential to provide a hydrostatic head of grout.

Base plate:

If delay is likely before placing steel base plates, it is recommended that the underside and edges are coated with TOP Prime ER 40 to prevent rust formation and ensure bonding with the TOP Grout EP grout. All metal surfaces should be cleaned to a bright finish in accordance with Standard SA 2½ or equal. TOP Prime ER 40 can be applied directly onto newly cleaned to be steel surfaces even if they are damp.

Mixing:

Pour all the contents of the hardener pack into the base container. Mix using a slow speed power mixer until homogeneous. Pour all the resultant liquid into a container. Add all the filler provided and mix using a slow speed power mixer for two minutes or until a uniform colour is achieved in the grout.

Placing:

Ensure that the grout can be placed within its pot life. 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.

Flow Characteristics:

The maximum distance of flow is governed by the gap thickness, the head of grout applied and the ambient temperature.

CURING

Cure time will vary depending on the ambient temperature, quantity mixed and placed. Top Bond EP will have fully cured after 7 days at 25°C.

CLEANING

Clean all equipment with Thinner/water immediately after use.

SAFETY PRECAUTION

Contact with skin and eyes should be avoided. Gloves should be used when handling these products. If contact with the resin occurs, wash immediately with a strong detergent or a resin removing cream. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

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