

ECMAGROUT 307

Polyester Resin Anchor Grout

Description

ECMAGROUT 307 polyester resin grout is pre-measured, two parts, high strength, polyester resin grouts. After hardening the grout produces anchorages of consistent reproducible values. ECMAGROUT 307 can be used up to an annular size of 25mm.

Areas of Application

ECMAGROUT 307 is used for high strength, corrosion resistant anchoring of bolts and bars from 12 – 25 mm diameter into concrete, rock, masonry or brickwork where high speed of installation and early application of load is required. Permanent installation of reinforcement starter bars, rock bolting in tunnels, foundation bolts, base plates, barriers and safety fences, railway tracks, tie-back anchors, reinforcement dowelling abutments, ground anchors for towers, cranes, dock sills.

Advantages

- Rapid strength gain
- Vibration resistant
- Corrosion resistant
- Non-expansive.
- Can be placed underwater

Technical Specifications

Appearance	Pack A – Amber, Pack B - Grey
Physical State	Pack A – Liquid, Pack B - Powder
Gel time at 27 °C	35 minutes
Compressive Strength 7 Days	71 N/mm ²
Flexural strength @ 30°C	20.0 N/mm ²
Tensile strength @ 30°C	10.5 N/mm ²

BOND TEST: As per BS 5080 part1:1974 a bolt of 20mm Dia. with an anchorage of 200mm was tested for bond strength, there was no product failure and the bolt failed at 11 tones.

Chemical Resistance

The cured resin is resistant to fresh and salt water, petrol, oils, grease and most acids, alkalis and solvents.

Design Criteria

ECMAGROUT 307 grout to be used will depend upon ambient temperature and anchor conditions. The high strength of the cured resin permits strong anchors to be created. The ultimate bond strength determined by:

- Strength of host material
- Length of resin bond to bar
- Hole preparation and formation
- Type and dimension of bar



Application Instructions

Hole Preparation: Optimum performance of ECMAGROUT 307 requires rough sided, dust free holes. Uses of rotary percussive drills with air or water flushing is recommended. Diamond drilled holes should be under reamer unless necessary safety factors are incorporated. Cast holes should preferably be inverse dovetail configuration. If parallel sides holes are cast, they should be rough to provide adequate keying. The drilled holes should not contain oil, grease or any other loose particles which may affect the bondage between the substrate and the resin grout.

Mixing:

A complete pack of resin and catalyzed filler should be mixed in one operation. Mixing may be carried out mechanically. When a smooth, even consistency is achieved the grout is ready for use and should be placed well within the gel time of the grout (see properties). Packs have been designed to produce practical and economic volumes of grout. Do not attempt to mix partial pack components.

Installation:

ECMAGROUT 307 should be poured steadily into the prepared holes. The anchor bar is then pressed into the hole to the required depth. Slight agitation of the bar will assist in achieving a Complete bond. The bar should then be left undisturbed in the required position until the resin is set.

Packaging

1 Kg and 4 Kg Kit

Shelf Life

6 Months in original, unopened, sealed condition when stored in dry & cool place below 25°C

Storage & Handling

Material should be stored in moisture free, cool and dry shade away from high temperatures. Please avoid stacking of containers and handle carefully during transport.

Safety & Precautions

Wear all PPE's at the time of application like Safety boot, Safety Goggle, Hand Gloves, Mask and avoid contact with Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.

ECMAGROUT 307 polyester resin grout is flammable. Confined areas must be well ventilated and no naked flames allowed even do not smoke during use.

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