

Easi-Fix[®] Cementitious Grout 2C



Description

Easi-Fix Cementitious Grout 2C is a two-part, cementitious shrink compensated anchoring grout with a specially developed blend of polymeric reinforcing resins. Easi-Fix Cementitious Grout 2C can be applied by a grout injection gun or by trowel into surfaces to bond masonry and steel components.

Simply mix the powder and liquid component together to produce a high strength, non-shrink cementitious anchoring and stitching grout.

Once injected Easi-Fix Anchor Grout 2C will tighten in the anchor hole and fix the bolt, tie or other unit into the substrate.

Easi-Fix Anchor Grout 2C is suitable for fixing into most construction materials including concrete, rock, brickwork, masonry blockwork or other substrates capable of carrying the design load.

Easi-Fix Anchor Grout 2C can be used to fix:

- Helical Spiral Stitching Bars
- Anchors, Bolts and Starter Bars
- Masonry Reinforcing Bars
- Remedial Wall Ties

Advantages

- Two components, simply mix together on site to create cohesive anchoring grout.
- High early strength develops 30% compressive strength after 24 hours.
- High strength, sets at 55 N/mm².
- Cementitious and therefore performs in fire conditions similarly to concrete.
- Delivery cartridges can be cleaned with water and reused many times.
- A true non-gaseous grout, free of bleeding and settlement with long term stability over a wide range of temperatures.
- Good cohesive fluidity, whilst remaining thixotropic, for easy application in difficult access areas.
- Shrink compensated and maintains maximum contact with bearing surfaces.
- Ready-to-mix components supplied in two-pack sets

Preparation

All holes/ voids shall be clean and free of dust and residue from the drilling/ cutting operation. Holes shall be pre-wetted with a spray lance at least within one hour of the grout insertion and the surface contact area must be in a moist condition throughout placement. Very dry materials should receive a second wetting to further reduce initial suction. Surface water should be removed or allowed to drain before application.

Mixing

Add $\frac{3}{4}$ of the liquid container to a clean bucket then slowly add the entire contents of the powder component to it and mix with an electric paddle mixer for 3 minutes. Add more of the liquid component until desired consistency is reached. Once mixed a smooth and cohesive grout will be achieved.

Care should be taken not to mix more Easi-Fix Cementitious Grout 2C than can be used in 20-30 minutes from mixing. Prior to each cartridge loading, the material in the pail should be re-mixed to maintain grout workability.

Placing

Anchors, Bolts, Ties

Load the mixed Easi-Fix Cementitious Grout 2C into the cartridge of the injection gun. Use an extension tube for the cartridge to allow filling of the hole from the bottom to the mouth. Immediately after placing Easi-Fix Cementitious Grout 2C, insert the bolt, bar, wall tie, slotting or other fixing. Gently agitate the inserted fixing to ensure complete contact by the anchor grout. Once placed do not disturb before the anchor grout has hardened.

For best tensile anchorage results a minimum embedment depth of 100mm is recommended. Hole diameters may be varied but a minimum of 2mm all-round clearance should be used. This clearance may be increased for ease of placing fixings into deep holes.

Stitching Bars

Load the mixed Easi-Fix Cementitious Grout 2C into the cartridge of the injection gun. Use a thin nozzle for the cartridge to allow filling of the chase from the back. In general place a 10mm bead into the chase, then immediately after placing insert the masonry reinforcing bars/ helical spiral bars. Gently tap the inserted fixing into the grout to ensure complete contact by the anchor grout. Immediately apply a second 10mm bead over the top of the reinforcement bar and allow to dry. Once placed do not disturb before the anchor grout has hardened.

In both scenarios each cartridge filling should be used within 5 minutes. The total working life of the mix will be approximately 30 minutes. Prior to each cartridge loading, the material in the pail should be re-mixed to maintain grout workability.

Application Notes

In all scenarios Easi-Fix Cementitious Grout 2C should be installed into a clean damp substrate that has been prewetted as per the preparation section. Never install into dry masonry.

Easi-Fix Cementitious Grout 2C has a total working life of approximately 30 minutes. Prior to each cartridge loading, the material in the pail should be re-mixed to maintain grout workability.

Easi-Fix Cementitious Grout 2C should not be applied to frost filled surfaces or when the temperature is 5°C and falling or 25°C and rising.

Curing

Easi-Fix Cementitious Grout 2C is a cement based anchoring grout so will dry with the same characteristics as concrete. It is essential that the grout does not dry too fast as cracking could occur.

Technical Properties

Mechanical strength profile (+20°C / 90% RH) (N/mm²)			
Age/ days	1	7	28
Compressive	13	35	55
Flexural	3	6	12

Packaging

3 Litre buckets. Two packs of each component.

Coverage

Approximately one 3 litre bucket per 10 x 1 m long Helical Bars with a bead depth of 20mm.

1 Litre of mixed Easi-Fix Cementitious Grout 2C will fill approximately one hundred 10mm x 100mm round holes.

Storage and Shelf Life

Easi-Fix Cementitious Grout 2C has a minimum shelf life of 12 months in the original bucket fully sealed, when kept in dry conditions at a temperature of 5°C to 25°C.

Health and Safety

Refer to latest health and safety data sheet.