

Perma Cem Anchor Grout

Description

Perma Cem Anchor Grout is a premixed cementitious shrink compensated anchoring grout with a specially developed blend of polymeric reinforcing resins. Perma Cem Anchor Grout can be applied by a grout gun or pump into apertures or by a trowel onto surfaces to bond masonry and steel components.

Perma Cem Anchor Grout requires only the addition of a measured amount of clean water to produce an environmentally and user friendly method of fixing:

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

Benefits

- Single component, simply add water on site to create cohesive anchoring grout.
- Cementitious and therefore performs in fire conditions similarly to concrete.
- Delivery cartridges can be cleaned with water and reused many times, thus alleviating environmentally correct waste disposal.
- A true non gaseous grout, free of bleeding and settlement with long term stability over a wide range of temperatures and humidifies.
- Good cohesive fluidity, whilst remaining thixotropic, for easy application in difficult access areas.
- Shrink compensated and maintains maximum contact with bearing surfaces.
- Mixes with clean water so as much or as little that is required can be mixed at one time.
- All in one product, no need for additives or separate liquid admixtures.



Preparation

All holes 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

Clean water should be added at a rate of 200ml per 1kg of grout, and mixed with a paddle mixer for 2 minutes. This will produce a smooth and cohesive grout. Do not add more than the specified quantity of water otherwise loss of properties will result. All the mixed grout should be loaded into the cartridge tubes and the vessel washed clean ready for re-use.

Care should be taken not to mix more Perma Cem Anchor Grout than can be used in 20-30 minutes from mixing. Surplus grout can, on finished surfaces, be allowed to dry and brushed off with a stiff brush.

Yield

The yield from 1 kg of Perma Cem Anchor Grout mixed with 200ml of water is approximately 570ml - sufficient to fill two standard mastic style empty cartridges.

Packaging

Perma Cem Anchor Grout is packaged in a 10 kg and 25kg plastic buckets.

Storage

Store in a cool dry place as for cement. Shelf life one year.

Technical Data

Product type:	Cementitious Anchoring Grout
Mixing ratio:	1 kg powder: 200ml clean water
Working life:	20-30 minutes from mixing
Working Temperature:	Do not use if the temperature of the air or the substrate is below +5 °C or above +30 °C.

Tensile Performance

Tensile strength after 7 days: > 6 N/mm²

Tensile strength after 28 days: > 7 N/mm²

Flexural Performance

Flexural strength after 7 days: > 6 N/mm²

Flexural strength after 28 days: > 7 N/mm²

Compressive Performance

Compressive modulus to BS 6319 after 7 days: ≥ 30 N/mm²

Compressive modulus to BS 6319 after 28 days: ≥ 35 N/mm²

Health and Safety

Refer to product safety data sheet and read the container label before use. Wear gloves and good eye protection. For further detailed information please consult the product safety data sheet.



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