



UCOGROUT-GP-45

EG-131

Ultra-High Strength Pourable Epoxy Resin Grout

Product

UCOGROUT-GP-45 is pre-packed free flowing non-shrink high strength cementitious rheoplastic grout with wide range of applications.

Composition

UCOGROUT-GP-45 is a blend of modified special cements, expansion agent, fluidifiers and well-graded aggregates free from corrosive substances.

Description

UCOGROUT-GP-45 is a pre-mixed cementitious grout which both high early ultimate strength.

UCOGROUT-GP-45 has excellent flow properties and will not shrink. UCOGROUT-GP-45 is suitable to use and only require the addition of water to produce a fluid grout. UCOGROUT-GP-45 is free from corrosive substance.

Properties

In common with other cementitious products the properties of UCOGROUT-GP-45 depend upon the water : cement ratio used.

UCOGROUT-GP-45 will stay pourable for approximately 20 minutes at 20°C any material unused after this time should be discarded.

UCOGROUT-GP-45 is suitable for use in gap widths of between 10-50mm for application below 10mm alternative material may be used. More detail please contact our technical department for material may be built-up on layer not exceeding 50mm.

Alternatively UCOGROUT-GP-45 may be bulk out by the addition of approximately 6 kg. 6 mm pea gravel to each bag. This will allow thickness up to 100mm to be achieved in one pour.

Technical Data

FormPowder
Colour.....Gray
Pourable life..... 30 mins
Water absorption.....less than 2%
Density..... 2170 kg/cm³
Water per 25kg..... 4.75 liters
Free Expansion..... 2 to 4 % in plastic state

Advantages

- Ready to use
- High early and ultimate strength
- Non Shrink
- Good flow properties
- Chloride free
- Non Ferrous

- Resistant to oil and water penetration
- Slight expansion leads to superior bonding to Surrounding Materials
- Excellent adhesion

Purpose

Ideally suited as a heavy-duty grout for machinery, truck and crane, rails where complete filling of voids is needed.

Where to Use

- Machine based plates
- Columns in precast construction
- Cavities, gaps and crane rail
- Bridge bearing pads, boiler foundation
- Grouting and guard rail assemblies
- Grouting of tracks and transformers

Typical Strength

Test Age	Compressive Strength (At w/p=0.19 KG/cm²)
1 Day	150.0
3 Day	250.0
7 Day	350.0
28 Day	500.0

Method of Use

The substrate should be sound clean and free from contamination. Concrete and other mineral surface should be carefully pre washed and all surfaces should be carefully pre-wetted and all surplus water removed, prior to the application of UCOGROUT-GP-45.

Use oil-free compressed air to blow out bolt holes etc. as necessary. Ensure base plates, bolts etc. are clean and free of oil, grease and paints etc. Set and align equipment if shield are to be removed after the grout has set then lightly grease them to facilitate easy removal.

The UCOGROUT-GP-45 should be mixed with the correct amount of water preferably by mechanical means for minimum of 3 minutes Do not mix more material that can be used in 20 minutes. The powder should never be poured in to still water.

The fluid grout should be poured from one end only. Ensure that air displaced by the fluid grout is to escape when caring out base plate grouting ensure sufficient grout head of pressure.

Usage

One 25 KG pack of UCOGROUT-GP-45 will yield approximately 14.0 liters of grout

Packing

25, 50 KG woven sacks/PVC laminated paper bag

Storage

- UCOGROUT-GP-45 has a shelf life of 12 months from the date of manufacturing, if stored as per manufacturer's instructions & in manufacturer's original unopened packing.
- Keep away from direct sunlight and store in dry & shade.

- Protect from freezing and moisture.

Handling Precaution

- UCOGROUT-GP-45 is an industrial chemical; required handling precautions should be followed.
- UCOGROUT-GP-45 is non-flammable and doesn't contain any flammable ingredient.
- UCOGROUT-GP-45 is non-hazardous, however inhalation of its dust particles should be avoided. Use of facemask is recommended.
- Prolonged contact with skin should be avoided. Use rubber gloves and boots, when working overhead, goggles should be worn.
- Contact with eye should be avoided. If in contact with eye, wash with water and take medical advice immediately.

Important Note:

All products should be used in accordance with manufacturer's instructions. Every effort is made to ensure that the information is reliable, however we do not accept any responsibility for any work carried out with our material(s) as we have no control over the method(s) used for application, site conditions, weather conditions, etc.

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