



Technical Data Sheet

Ecogrout EP500 High Strength Epoxy Grout

Description

Ecogrout EP500 is a three component, high strength, free flowing, epoxy resin grout. **Ecogrout EP500** is suitable for grouting gaps with thicknesses between 20 – 80mm.

Applications

Ecogrout EP500 is ideally designed for use in the following applications:

- Pile Head Re-profiling Epoxy Grout
- Machine base plates.
- Heavy crane rails.
- Pile top waterproofing.
- Bearing plinths.
- High speed turbines.
- Grouting areas where occasional chemical spillage may occur.

Advantages

- Resistant to dynamic loading.
- Non-shrink and low creep characteristics under continuous loading.
- High compressive, flexural and tensile strengths.
- Extremely dense.
- Exceptional bond to concrete and steel surfaces.
- Good chemical resistance.
- High early strength development allowing for rapid installation.

Technical properties

Property:	
Compressive strength: BS 6319 part 2:1983	≥ 80N/mm ² @ 7days
Flexural strength: BS 6319:part 3:1990 @ 25°C	≥ 15N/mm ² @ 7days
Fresh wet density:	2.00±0.05
Tensile strength: BS 6319:part 7:1985 @ 25°C	≥ 7N/mm ² @ 7days
Working life @ 25°C	50 – 70 minutes

Method of use

Surface preparation

- The Substrate should be sound, clean and free from contamination. Surface laitance should be removed by scrubbing or grit blasting.
- Steel surfaces should be grit blasted to remove all rust and scale.
- Concrete surfaces should be dry.
- Holes drilled for anchor bolts should be thoroughly cleaned from dust and loose debris using suitable brush or compressed air.

Mixing

- To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.
- The entire content of the Hardener pack should be added to the Base pack. Care should be taken to ensure that the bottom and the product sides are thoroughly scraped and used. Mix the two components for 2 minutes. The filler should be gradually added while mixing. Mixing should continue for 3 minutes or until a uniform consistency obtained.

Placing and Finishing

Under Base plate:

Enough materials should be available to achieve continuous fill and to complete the work. Pouring of the mixed grout should be started from one side only to avoid air entrapment. To obtain maximum flow distance, a side shutter feed 100mm height should be erected and used to build the required head. At 100mm of head, a flow distance of 1800mm and 3000mm can be achieved at gap thicknesses of 40mm to 75mm respectively @ 25°C ambient temperatures.

Formwork:

As the mixed grout possesses high fluid characteristics, all formwork and shutters should be water tight. This can be achieved by sealing underneath the formwork and at the joints by using an appropriate mastic.

Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user's consideration, investigation and verification in the application intended. We do not warrant the results or performance attained due to the nature of the influence of other constituent components in the application.



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Yield

Approx. 15ltr./ 30kg pack.

Storage

12 months when stored properly in unopened original containers in dry conditions at temperature between 10 - 35°C.

Once the packaging has been opened, the useful life of the material is greatly reduced and it should be used as soon as possible

Notes:

If application is done under high temperatures, care should be done because the working time will be reduced significantly.

To reduce the effect of this problem, try to store the unmixed materials in a cool environment, avoiding the direct sunlight. Also, try not to make the application in the middle of the day or direct sunlight.

Cleaning

Used materials should be removed from tools, equipment and mixers with Envirocon Solvent immediately after use. Hardened material can only be removed mechanically.

Packaging

Ecogrout EP500 is available in 30kg Kit

Cautions

Health and safety

Avoid skin and eye contact by wearing overalls, gloves, goggles, and air-mask etc. Spillage on skin should immediately be removed by thorough washing with water and soap or suitable cleaner. Eye should be flushed with fresh water.

Avoid inhalation of vapors and paint mist by wearing suitable air-mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well-ventilated area.

Smoking in the area should not be permitted. Local safety regulations should be followed.

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