



Technical Data Sheet

Eco-Grout GPM

High flow non-shrink general purposes cementitious grout

Description

Ecogrout GPM is non-shrink, pre-packed chloride free cementitious grout. It contains cement, selected additives, well graded, and non-reactive aggregates and is designed to give excellent flow properties, shrinkage compensation, frost resistance, with high compressive strength.

Applications

- Machine beds
- Stanchion bases, struts, railings, and guardrail assemblies.
- Filling of shutter tie rod openings.
- Anchoring of tie bars, and bolts.
- Pile top re-profiling.

Advantages

- Good non-shrinkage characteristics.
- Extremely dense and low permeability.
- High early strength development allowing for rapid installation.
- High flow can be poured or pumped into variable gap widths down to 10 mm.
- Easy to apply, single component which require only addition of water.

Technical properties

Color	Grey
Mixed density	2.15 ± 0.1
Compressive strength BS EN 196-1: 2016 cl. 9.2	≥ 50 MPa @ 28 days
Mixing Ratio (W/P):	0.11 flowable
Expansion characteristics:	≤ 2% ASTM C827-87
Min. application Temperature:	+5 °C

Thicknesses and size limitations

Ecogrout GPM can be applied in a single layer at thickness between 10 – 100mm. For greater thickness, 8 – 12mm washed aggregate should be added at a ratio of 15kg of washed aggregate to 25kg of **Ecogrout GPM**.

Method of use

Substrate Preparation

The Substrate should be sound, clean and free from contamination. Surface Laitance should be removed by acid etching.

All surfaces should be soaked with water enough to reach saturated surfaces prior to grouting.

A water tight formwork should be erected to avoid any grout loss

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

Depending on the consistency required, the addition of 2.75 liters - 3.25 liters of clean water should be added to clean container.

The 25kg powder is then added slowly to the water while mixing continuously with low-speed mixer/drill (400 – 600rpm).

Mixing time should be continued for 3 minutes until uniform consistency is obtained.

Application

Placing and Finishing:

Under Base plate:

Enough material 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 between 100mm to 250 mm high should be erected and used to build the required head.

As the mixed grout possess high fluidity characteristics, all formwork and shutters should be water tight.

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 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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This can be obtained by sealing underneath the formwork and at the joints by using an appropriate mastic.

The unrestrained areas should be kept to a minimum due to the expansive nature of **Ecogrout GPM**.

Curing

The exposed grout surface must be cured either by using concrete curing compound such as **Ecocure AC** or by using wet hessian and polyethylene.

Theoretical Coverage

Approximately: 12.5L/25kg bag depending on required consistency

Storage

Ecogrout GPM shelf life is 12 months if stored at temperatures between 2°C and 50°C in original unopened bags.

If stored in high temperature and high humidity locations the shelf life may be reduced.

Cleaning

After the application all tools should be cleaned with water.

Ecogrout GPM can be cleaned with only mechanical abrasion after hardening.

Packaging

Ecogrout GPM is packed in 25kg bags.

Cautions

Health and safety

Ecogrout GPM contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be harmful to the skin.

During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces).

The use of barrier creams to provide additional skin protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Fire

Ecogrout GPM is non-flammable.

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E n v i r o c o n C o n s t r u c t i o n P r o d u c t s L L C



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