



Technical Data Sheet

EcogROUT EP350BM High Strength Epoxy Bedding Mortar

Description

EcogROUT EP350BM is a three component, high strength, epoxy bedding mortar for repair of horizontal surfaces such as industrial floors, bridge decks, patch repair works.

Application thicknesses: 5mm – 50mm per one-layer, multiple layers maybe applied

Applications

EcogROUT EP350BM is ideally designed for use in the following applications:

- Deep section repairs in columns, walls, and heavily loaded areas.
- Infill mortar by ramming and packing techniques beneath steelwork or beneath concrete beams in underpinning work.
- Sub-base for epoxy resin coatings and fine screeds when a greater build is required together with a tighter, smoother finish.

Advantages

- Provide an impermeable layer with good resistance to abrasion
- Non-shrink and low creep characteristics under continuous loading.
- High compressive, flexural and tensile strengths.
- Extremely dense.
- Good chemical resistance.

Technical properties

Property:

Compressive Strength BS 6319 part 2:1983	≥ 55N/mm ² @ 7days
Flexural strength: BS 6319:part 3:1990 @ 25°C	≥ 12N/mm ² @ 7days
Fresh wet density:	2.00±0.05
Tensile strength: BS 6319:part 7:1985 @ 25°C	≥ 7 N/mm ² @ 7days
Bond strength:	> 2.0 MPa (Concrete F)
Foot traffic	24Hours @25C
Full cure	7 days @25C
Potlife @25C	40 min

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.

Priming

Surfaces must be primed with **Ecohard EP primer** prior to application of **EcogROUT EP350BM**

EcogROUT EP350BM should be applied between 15 minutes and 1 hour after application of the primer, whilst the primer is still tacky.

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

Enough material should be available to achieve a continuous fill and to complete the work.

EcogROUT EP350BM should be applied by first tamping, followed by troweling while **Ecohard EP primer** still tacky.

The mortar should be applied in successive layers not exceeding 50mm, each layer being well compacted before each application of subsequent material.

If the mortar has been allowed to harden, the surface should be abraded, and a further coat of **Ecohard EP primer** applied.

Where necessary, lightly wiping the trowel with Solvents to form coving and troweled to a smooth finish.

If formwork or shuttering is to be used a suitable release agent should be applied to the formwork to prevent the **EcogROUT EP350BM** adhering to it.

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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Storage

6 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 EP350BM is available in 20kg approx..10L/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.

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



Envirocon Construction products L.L.C.

Abu Dhabi U.A.E.

P.O.Box :28577

Tel:+971 2 5503473

Fax:+971 2 5503474

www.enviroconcp.com

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