



Technical Data Sheet

Ecohard EP303HL Light weight Epoxy Mortar

Description

Ecohard EP303HL is a three component, high strength, light weight epoxy mortar especially formulated and designed for use in construction and repairs for high build applications particularly in vertical and overhead situations.

Thickness Range

10mm – 50mm in a single layer

Advantages

- Provide an impermeable layer with good resistance to abrasion
- Non-shrink and low creep characteristics under continuous loading.
- Good chemical resistance.
- Excellent adhesion to concrete, asphalt, and steel surfaces

Technical properties

Property:	
Compressive Strength BS 6319 part 2:1983	> 40 N/mm ² @ 7days
Flexural strength: BS 6319:part 3:1990 @ 25°C	> 10 N/mm ² @ 7days
Fresh wet density:	1.15 ±0.05
Tensile strength: BS 6319:part 7:1985 @ 25°C	> 5 N/mm ² @ 7days
Bond strength:	>2.0MPa(Concrete F)
Foot traffic	24 hours @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.

Priming

Substrates should be primed with Ecohard EP primer

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.

Ecohard EP303HL should be applied and well compacted, by trowel, wood float or gloved hand before the primer has hardened (normally within 30-40mins).

The lightweight mortar should be applied in successive layers, 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.

If formwork or shuttering is to be used a suitable release agent should be used to prevent the **Ecohard EP303HL** adhering to it.

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.

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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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

Ecohard EP303HL is available in 10kg (Approx. 9.0L)/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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