



Technical Data Sheet

Ecohard Topping Heavy duty, epoxy topping for floor surfaces

Description

Ecohard Topping is a three-pack solvent free, epoxy-based topping that provides floor surfaces with a seamless, hygienic and cosmetically attractive finish.

Ecohard Topping is applied by trowel and can be coved and laid to falls and has a very good durability towards pedestrian and vehicular traffic. It also has very good resistance towards many of the chemicals commonly found in an industrial environment (consult our Technical department for further details).

Ecohard Topping has a finish that provides very good slip resistance and can be supplied in a variety of colors (consult our Sales Department for details).

Applications

Ecohard Topping is used to provide a hygienic, dense and extremely hard wearing surface for concrete floors for a wide range of applications such as:

- Warehouses.
- Paint workshops.
- Dairies.
- Chemical factories.
- Oil refineries.
- Freezers and refrigerated storage.

Advantages

- Extremely hard wearing system.
- Solvent free.
- Non-slip.
- Available in a wide range of attractive colors.
- Resist a wide range of chemicals.

Thickness Range

2 - 5mm.

Technical properties

Property:	
Compressive strength to BS6319, Pt 2:	> 50N/ mm ²
Flexural strength to BS6319, Pt 3:	> 10N/ mm ²
Tensile Strength to BS 6319, Pt 7:	> 50N/ mm ²
Pot life:	45min @ 25°C
Foot traffic @ 25°C:	After 24 hrs
vehicular traffic @ 25°C:	After 72 hrs
Chemical curing @ 25°C:	7days
Bond Strength:	>1.5N/ mm ² (concrete failure)

Method of use

Surface preparation

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum adhesion between the substrate and the coating.

Concrete floors must have a minimum compressive strength of 25 N/mm² and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative humidity can be measured by using hygrometers.

Concrete relative humidity should be less than 80% for concrete of 28 days old or more, for low W/C ratio concrete floors, 80% hygrometer reading or less can be achieved before 28 day age.

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. In case of areas deeply contaminated by oil or grease, such areas should be treated with hot compressed air.

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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Priming

Concrete substrates should be primed with Ecohard EP Primer. Use lambs wool roller to apply the primer.

More than one coat may be required for highly porous or textured surfaces. Work the primer well into the surface of the concrete and whilst the primer is wet, dress the surface with Antislip Aggregates #3 (0.3mm – 0.8mm) at the rate of 0.5kg/ m² and allow to touch dry.

Another prime coat shall be applied just before applying the mixed **Ecohard Topping** to ensure a strong bond between the primer coat and the top coat.

Add the contents of the **Ecohard Topping** Hardener into the base container and using a jiffy-type mixer attached to a slow running electric drill, mix for approximately two minutes. Then transfer the entire contents of the base container into a Casco or Creteangle-type mixer, ensuring that the bottom and sides are thoroughly scraped.

Start the mixer and add the entire contents of the **Ecohard Topping** Filler container, ensuring that this is completely dry and lump-free. Continue mixing for approximately two minutes.

Important: Never mix by hand as this could lead to areas of uncured material.

Application

Once mixing is complete, transfer the **Ecohard Topping** to the uncured primed surface and using a straight-edged steel trowel, apply it evenly. The use of Quickmast Solvent when used to clean the trowel will also aid in producing a tight closed surface.

Important: When applying each kit of **Ecohard Topping**, leave approximately 200mm of the closest working edge untrowelled as this will help the blending in of the next kit.

Note: Avoid excessive trowelling as this can lead to marks resembling burns on the surface

Remarks

- **Ecohard Topping** should not be applied on to surfaces known to suffer from damp rising.
- **Ecohard Topping** should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 80%.

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Packaging

Ecohard Topping is available in 30kg packs. (15 liters).

Coverage

Ecohard Topping: Approximately 3m² per kit @ 5mm thick.

Storage

12 months when stored properly in unopened container in dry conditions at temperature between 10 - 25°C.

Cleaning

All tools shall be cleaned immediately after application using **Envirocon -Solvent**. Hardened materials must be cleaned mechanically.

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.

Fire

Ecohard Topping is non-flammable.

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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