



Technical Data Sheet

Eco-Hard EP500SL Self – Leveling Epoxy

Description

Ecohard EP500SL is a three component pre-measured system consisting of a base, hardener and filler.

Ecohard EP500SL is solvent free, high gloss; free-flowing pigmented epoxy flooring with a wide range of applications that provides a dense, impervious, colored and chemically resistant floor surface which is hygienic and easy to clean.

Ecohard EP500SL is applied by trowel to horizontal surfaces and has very good durability towards pedestrian and vehicular traffic.

Applications

Ecohard EP500SL is used in industrial and commercial situations to provide an easy-to-clean floor finish able to withstand mechanical abrasion and the spillage of aggressive chemicals in locations such as:

- Food and beverage plants
- Pharmaceutical facilities
- Kitchens and laundries
- Hospitals
- Showrooms
- Chemical handling and processing areas

Advantages

- High impact and abrasion resistance
- Fast application
- Easy to clean finish
- Resistant to wide range of chemicals
- Does not support growth of bacteria, fungi or micro-organisms
- Available in a range of colors

Technical properties

Color	Variable
Solid content by volume	98% ± 2%
Foot traffic:	After 24hours @ 20°C
vehicular traffic:	After 48 hours @ 20°C
Pot life	1:30 hour @ 20°C
Full Cure	7 days@ 25°C



Method of use

Surface preparation

- New concrete must be firm, clean, and free of any adverse moisture conditions. The surface must have an appropriate surface profile and be well-cured (28 days at 25°C). Abrasive blast to open all surface voids and remove all form oils, incompatible curing agents, hardeners, laitance and other foreign matter and produce a surface texture similar to that of medium grit sandpaper
- Older, uncoated concrete is prepared in the same manner as new concrete. Before preparation, the concrete must be thoroughly cleaned with a strong detergent cleaner to remove all grease, laitance and oils. All loose concrete must be removed. Holes and cracks should be filled with **Ecohard EPLV** Crack Filler. Surface deterioration and rough surfaces should be treated with **Ecohard EPFC**
- Previously painted surfaces s Concrete surfaces must be clean and sound. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion.
- Blow or vacuum off sand and dust. Slabs at or below grade should be tested for moisture transmission through the slab using ASTM D-4263 test method. If moisture is indicated, precautions must be considered prior to coating.

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

All surfaces to be treated with **Ecohard EP500SL** should be primed with **Ecohard EP primer S**, a solvent based epoxy resin primer designed for maximum absorption and adhesion to concrete substrates. The primer should be allowed to cure for 24 hours.

Use lamb's wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces.

Mixing

Ecohard EP500SL flooring is supplied in three pre-weighed packs (base, hardener, and filler) Prior to mixing, stir individual components of **Ecohard EP500SL**.

Taking care to ensure that the bottom and sides are thoroughly scraped.

Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor.

Mixing should be carried out using either a forced action mixer; or a heavy duty, slow-speed drill fitted with mixing paddle.

The components should be mixed in a suitably sized mixing vessel.

Mix the base container for 15-30 seconds, until homogeneous. Then add the hardener and mix for further 30 seconds, until an even color and texture is obtained.

Thereafter, the contents of the graded aggregate pack should be slowly added and mixing carried out for a further 2- 3 minutes until a completely homogenous material is obtained.

Precaution: don't mix **Ecohard EP500SL** by hand as this could lead to areas of uncured material.

Application

Once mixing is complete, transfer the **Ecohard EP500SL** to the primed surface at 2- 3 mm thicknesses by rack.

Care should be taken when joining the lanes, to achieve a smooth connection.

It is recommended to mask off edges with tape which is then removed while **Ecohard EP500SL** is still wet.

While still wet, thoroughly spike roll the **Ecohard EP500SL**.

Theoretical Coverage

Approximately 6.25m² per kit @ 2mm thick.

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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.

Packaging

Ecohard EP500SL available in 30Kg kit (around 19.2 Liters)

Ecohard EP500SL Base 8 Kg

Ecohard EP500SL Hardener 6 Kg

Ecohard EP500SL Filler 16 Kg

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 EP500SL 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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