



Technical Data Sheet

Ecohard HBE 60C Solvent Free Epoxy Coating

Description

Ecohard HBE 60C is high build, hard wearing solvent free self-primed epoxy Coating, designed to provide hard impact and abrasion resistance with an excellent coating for concrete.

Ecohard HBE 60C is suitable for use on floors and walls in production areas, hygienic clean rooms, Manhole, and pipe linings, Foundation waterproofing and below ground level structures.

It is ideally suited for use in wet areas where a high degree of chemical resistance is required such as dairies, soft drinks production, chemical manufacture etc.

Advantages

- Hard wearing: Durable, low maintenance costs
- High impact and abrasion resistance
- Fast application
- Easy to clean finish
- Chemical resistant: Proven against a wide range of industrial chemicals
- Does not support growth of bacteria, fungi, or micro-organisms.
- Available in a wide range of colors to improve the working environment and identify slip hazard areas.
- Suitable for submerged foundations

Technical properties

Color	Variable
Specific Gravity @25°C	1.37 ± 0.02
Solid content	100 %
Compressive strength BSEN196-1	≥ 65MPa @ 7days
Flexural strength ASTM C579-18	≥ 25MPa @ 7days
Tensile strength BS6319-7	≥ 10MPa @ 7days
Bond Strength ASTM D4541	≥ 2Mpa (Concrete F)
Water Absorption DIN1048	Nil
Abrasion Resistance ASTMD4060-14	0.05 mg
Pot life	60 min @ 20°C
Full Cure	7 days@ 25°C

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 25N/mm² and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative humidity can be measured using a hygrometer. Concrete relative humidity should be less than 80% for concrete 28 days old or more.

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment.

Acid etching can be used only in well ventilated areas. Areas deeply contaminated by oil or grease; such areas should be treated by hot compressed air.

Disclaimer:

We hope that the information herein will be helpful. The expanded uncertainty associated with the tested parameters is 0.35% and 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

High porosity surfaces 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

Prior to mixing, stir individual components of Resin and Hardener. Add the entire contents of the hardener container to the base and mix thoroughly for at least 3 minutes.

To avoid inconsistent workability and pot life, make sure that the materials to be used are stored in shaded area and protected from extremes of temperatures, for at least 24 hours prior to application.

Precaution: don't mix **Ecohard HBE 60C** by hand as this could lead to areas of uncured material.

Application

Use brush or lamb's wool roller, or airless spray machine to apply the mixed **Ecohard HBE 60C** onto the prepared surfaces.

To get a film thickness of 400 microns, apply 2 coats of **Ecohard HBE 60C** at 5.0 m²/L per 200Micron coat, second coat should be applied at a right angle to the first coat. The second coat may be applied as soon as the first coat has initially dried. Drying time depends on the substrate and the ambient conditions.

If the over coating time is exceeded the first coat must be abraded with sand paper prior to the application of the second coat. Adequate ventilation must be provided to ensure that the necessary drying and curing of the material is carried out.

In contact with moisture or high humidity during cure, the color of the coatings maybe changed.

Theoretical Coverage

Approximately 5m²/L/coat@200 micron

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 HBE 60C is available in 24kg (16liter) 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.

Fire

Ecohard HBE 60C 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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