



Technical Data Sheet

Ecohard PU100

UV Resistance Polyurethane Floor Coating

Description

Ecohard PU100 is a two parts, aliphatic, low viscosity polyurethane top coat system. The product is formulated with special adhesion promoters to give the applied coat excellent penetration and adhesion power with the surface. Once applied, it cures rapidly into a hard sealer with glossy surface that offers excellent stain resistance with easy cleaning ability.

Ecohard PU100 is designed to act as a UV resistant sealer over Ecohard HBE60 and polyurethane floor coating system. It can also be applied on several kinds of substrate such as stamped concrete, Decorative concrete and metallic surface to provide the surface with protection against direct sunlight and weather conditions with high abrasion resistance.

Applications

Ecohard PU100 has been designed as a UV resistant coat for floor coating system.

The excellent resistance to chemicals and the high abrasion resistant combined with its elasticity makes **Ecohard PU100** suitable for use in car parks, vehicle ramps both indoor and outdoor.

Other applications include:

- As a protection sealer for concrete, acid stained surfaces and decorative flooring.
- Finish coat in vehicle areas, pedestrian walkway as it provides high abrasion resistant top coat finish to the surface.
- As a finishing coat in industrial, loading docks, commercial facilities where heavy duty polyurethane floor finish is required.
- Wooden floors and metallic surfaces.



Advantages

- UV resistant, excellent for outdoor applications.
- Excellent abrasion resistant.
- Integrates with various systems.
- High mechanical and impact resistant.
- Available in stable colours or transparent.
- Non-yellowing, flexible coating.
- Excellent surface adhesion.
- Chemical and stain resistant. Easy to clean.

Technical properties

Color	Variable
Solid content	60% ± 2%
Density	1.20 ± 0.05
Recoating time	12 – 24 hours
DFT	75 – 100 µ
Foot traffic:	After 24hours @ 20°C
vehicular traffic:	7 days
Pot life	60 min @ 20°C
Full Cure	7 days@ 25°C

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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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 removed 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.

Priming

As a top coat, **Ecohard PU100** can be applied directly over epoxy, polyurethane and finished concrete systems within 24 hours for epoxy and PU systems and after 14 days for concrete systems to allow for curing.

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.

Application

After mixing, allow the product to rest for 3 minutes to release entrapped air **Ecohard PU100** can be applied by brush, roller or spray machine. Apply first coat with a thickness of 100 microns wet film thickness, as a protective coating high build is not required. Second coat of **Ecohard PU100** can be applied within 3-5 hours of application of first coat, if required. Allow 1 day for pedestrian traffic and 5-7 days for full traffic to ensure proper curing of the materials.

Ecohard PU100 can be applied as a single top coat, or as a multi coat sandwich system incorporating aggregates to give a slip.

Theoretical Coverage

Approximately 10m²/L @ 100 Micron WFT per coat

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 PU100 is available in 4 liter and 15 liter set of two parts metallic containers.

Remarks

- Should not be applied onto surfaces likely to suffer from rising dampness or moisture content.
- Should not be applied at ambient temperatures less than 5° C or more than 40°C.
- High temperatures accelerates chemical reactions, which shortens the pot life.
- Temperatures should not fall below 5°C until the material is fully cured.

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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 PU100 is flammable.



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