

Permagard Epoxy Resin Floor Coating HB

Description

Permagard Epoxy Resin Floor Coating HB is a two-pack solvent free, high build epoxy resin coating for application as a heavy duty coating at a thickness from 200 to 500 microns. The coloured high gloss finish is extremely hard wearing and has good general chemical resistance.

Permagard Epoxy Resin Floor Coating HB has a low-odour during application and provides a sealed, continuous and hygienic floor surface when cured. Permagard Epoxy Resin Floor Coating HB is easily applied and provides a tough, resilient, corrosion and abrasion resistant finish. Anti-slip finishes can be achieved by the inclusion of aggregates.

Product Benefits

- High build coatings are obtainable in one application
- Ventilation for solvent evaporation is not essential for Permagard Epoxy Resin Floor Coating HB
- Hygienic and easy to clean and maintain
- Good colour stability
- Suitable for application where a bacteria-free finish is important
- Aggregates can be incorporated for improved slip and abrasion resistance and wearing properties
- Excellent high gloss finish
- No shrinkage on curing

The HB (high build) version of Permagard Epoxy Resin Floor Coating has a higher solid content level than our standard Epoxy Resin Floor Coating, when applied to a surface this gives a dry coat thickness of nearly three times the thickness of the standard product. In turn this provides a more substantial coating on the surface creating a tough, resilient, corrosion and abrasion resistant finish.

Application Areas

Permagard Epoxy Resin Floor Coating HB is suitable for most industrial floors including concrete, sand and cement screeds and certain types of asphalt and provides a hard wearing, decorative, and dust-free finish.

Being low odour, Permagard Epoxy Resin Floor Coating HB is ideal for use throughout industry including the food sector where solvent-based products are obviously unacceptable but hard wearing finishes are critical.

The chemical and oil resistant properties of Permagard Epoxy Resin Floor Coating HB make the product ideal for engineering units, automotive workshops and factories where a tough cleanable finish is required.

Preparation

New Concrete Floors: New concrete must be clean, sound, dry and fully cured and surface laitance removed preferably by enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm² is required.

Existing Concrete Floors: Remove all dirt, oil, grease or other surface contaminants by enclosed shot blasting, scarification or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing. Local repairs should be carried out using Quick-fix.

Permagard Epoxy Resin Floor Coating HB can also be applied to existing coatings and to wood, asphalt and other cementitious screeds which should be clean and sound with an appropriate mechanical key for adhesion.

Priming

Porous substrates may require priming with Permagard Epoxy Resin Floor Coating. Damp surfaces should be treated with Permagard Epoxy Damp Proof Membrane.

Application

The ambient temperatures of the areas should not be allowed to fall below 10°C throughout the application and the curing period, as this could have an adverse effect on the appearance and colour of the system. Surface temperature must be above 5°C. Where possible it is recommended that the application area is heated to a minimum temperature of 15°C ideally to allow the ambient and substrate temperature to stabilise prior to installation.

Mixing: Pre-mix the base component to a uniform consistency then mix the entire contents of the base with the hardener. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied. Mix using a slow speed electric mixer for approximately two minutes or until the two components have fully combined. Streaks within the mix indicate insufficient mixing. Do not add water to this product.

The mixed unit should be applied immediately by roller or brush with a consistent procedure. Floor areas should be cross-rolled to ensure even application and to minimise roller marks.

Product Information

System Thickness (Dry)	180- 500 Microns (Per Coat)
Solids Contents by weight	100%
Pack Size	5kg
Shelf Life	12 months
Storage	Keep out of direct sun light. Store above 15°C

Drying Times and Coverage Rates

Coverage Rate	0.25kg/m ² 20m ² per 5kg
Pot Life	25 minutes from mixing
Recoat Time	6 hours or once surface has lost tackiness
Light Traffic	12-16 hours
Heavy Traffic	24-36 hours
Full Chemical Cure	Up to 7 days

Category Guide

FerFA Category: 2

Technical Information

The following figures are obtained from laboratory tests and our experience with this product.

Slip Resistance	Dry > 60 Wet > 25
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The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance.

Abrasion Resistance	n/a
Temperature Resistance	Tolerant of sustained temperatures up to 45°C
Chemical Resistance	Good Chemical Resistance to specific materials
Compressive Strength	n/a
Flexural Strength	n/a
Tensile Strength	n/a
VOC	197g/l
Life Expectancy	3-4 years plus Subjected to Industrial Traffic

Maintenance and Cleaning

Permagard Epoxy Resin Floor Coating HB should be cleaned with a regular industrial cleaning regime with a floor scrubber utilising Permagard Industrial Floor Cleaner or similar with dirty water being removed. Isolated localised cleaning can be carried out using Permagard Tyre Mark Remover.. All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

Health and Safety

Permagard Epoxy Resin Floor Coating HB is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.



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