

Epoxy Floor Coating HB



Description

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

Permagard Epoxy Floor Coating HB has a low-odour during application and provides a sealed, continuous and hygienic floor surface when cured. Permagard Epoxy 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.

Floors become easier to clean and substantially more resistant to damage by forklift trucks, chemicals, fuels and lubricants etc. Permagard Epoxy Floor Coating HB also provides excellent resistance to light chemical attack and does not support fungus or bacterial growth.

Benefits

- High build coatings are obtainable in one application
- 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 Floor Coating has a higher solid content level than our standard Epoxy Floor Coating. When applied to a surface this gives a dry coat thickness nearly three times the thickness of the standard product. This provides a more substantial coating creating a tough, resilient, corrosion and abrasion resistant finish which is longer lasting.

Application Areas

Permagard Epoxy Floor Coating HB is ideal for use in the food industry e.g. dairies, breweries and bakeries where solvent based products are prohibited. The hard-wearing, chemical/oil resistant properties also make Permagard Epoxy Floor Coating ideal for:

- Workshops/ garages
- Warehouses
- Supermarkets (back of house areas)
- General light industrial usage

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.

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Permagard Epoxy 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 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 are 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.

On larger areas it is imperative that the same batch numbered product is used across the whole floor.

Application Notes

Permagard Epoxy Floor Coating should not be applied in areas of intense UV exposure as the product may discolour over a period of time. Please speak to our technical department for further information.

Product Information

System Thickness (Dry)	200-500 microns (per coat)
Solids Contents by Weight	100%
Pack Size	5kg
Shelf Life	12 months
Storage	Keep out of direct sunlight. Store above 15°C

Drying Times and Coverage rates

Coverage Rate	0.25kg/m ² 20m ² per 5kg
Pot Life	Up to 25 mins from mixing
Recoat Time	6 hours or once surface has lost tackiness
Light Traffic	12 to 16 hours
Heavy Traffic	24 to 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

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 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 Floor Coating should be cleaned with a regular industrial cleaning regime with a floor scrubber. All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

Health and Safety

Permagard Epoxy 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. For further information please see latest safety data sheet.