PermaCOAT Epoxy Floor Coating

Description

PermaCOAT Epoxy Floor Coating is a two-part, water-based, durable coating with a seamless finish. It is primarily designed for general application in all areas of industry where a hardwearing coating is required. Applications include warehouses and production units, food preparation areas, laboratory-clean room environments, and any areas of maximum hygiene, such as operating theatres and breweries.

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

PermaCOAT Epoxy Floor Coating also provides a curing membrane to increase the hardness of concrete by enabling full hydration of cement. PermaCOAT Epoxy Floor Coating can be applied to new (green) concrete 7 days after being poured.

PermaCOAT Epoxy Floor Coating is also the ideal primer for use before the application of PermaCOAT PRO High Build Epoxy Floor Coating, a high build epoxy resin 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.

Benefits

- Low-odour
- Fast (overnight) curing @ 15 - 20°C
- Apply to concrete,
- Slip-resistant finish (when combined with an aggregate)
- Resistant to most fuels & lubricants
- Hard-wearing
- Non-Dusting
- Satin finish
- Superior colour stability
- Superior curing at low temperature
- Freeze-thaw stability

Application Areas

PermaCOAT Epoxy Floor Coating 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 Epoxy concrete repair.

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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 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 a homogeneous mix is achieved. Streaks within the mix indicate insufficient mixing.

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. PermaCOAT Epoxy Floor Coating should always be applied in 2 coats unless being used as a primer for other floor coating systems.

Application Notes

PermaCOAT 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)	45-75 microns (Per Coat)
Solids Contents by Weight	50%
Pack Size	5kg
Colour	Grey, Clear
Shelf Life	12 months
Storage	Keep out of direct sunlight. Store above 15°C

Drying Times and Coverage rates

Coverage Rate	0.2kg/m² 25m² per 5kg
Pot Life	Up to 45 mins from mixing
Recoat Time	16 to 24 hours
Light Traffic	24 to 48 hours
Heavy Traffic	48 to 72 hours
Full Chemical Cure	Up to 7 days

Category Guide

FeRFA Category: 1

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 60°C
Chemical Resistance	Resistance to specific materials
Compressive Strength	n/a
Flexural Strength	n/a
Tensile Strength	n/a
VOC	15g/l
Life Expectancy	2-3 years plus. Subjected to industrial traffic

Maintenance and Cleaning

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

Health and Safety

PermaCOAT Epoxy Floor Coating 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 the latest safety data sheet.

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