

Hydrocoat

Water Dispersible Epoxide Resin Floor Coating

Description

A water dispersible epoxide resin based wall and floor coating, designed to provide a tough matt finish which is both abrasion and chemically resistant producing a surface which exhibits excellent cleaning properties. The low odour and complete absence of any solvents makes Hydrocoat ideal for use in abattoirs, breweries, bakeries, public areas and food preparation areas, where non-tainting is essential.

Advantages


- Non-flammable
- Chemical resistant
- Improves working environment
- Hardwearing, durable and long lasting
- Matt finish improves slip resistance
- Easily and quickly applied by unskilled labour
- Easily cleaned hence reducing maintenance costs
- Conforms to EN1504 Part 2

Applications

- Top coat in non-slip coating systems
- Hygienic flooring system for food handling areas and abattoirs
- Chemical resistant & hard wearing industrial flooring system

Technical Information

Specific Gravity: Clear	1.0
Pigmented	1.2
Wet film thickness: Clear	190 Microns
Pigmented	153 Microns
Application Temperature	5°C to 35°C
Substrate Application Temperature	5°C to 35°C
Flash Point	N/A
Solids Content	45-65%
Pot life @ 20°C	2 hour
Pot life @ 5°C	In excess of 4 hours
Full Cure	5-7 days @ 23°C
Coverage	5-8m ² per litre

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Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear. NE38 8QA 13 0086-CPR-594215	
EN 1504-2 Surface protection product Coating	
Chemical Resistance	
Hydrochloric acid	No visual defects
Sulphuric acid	No visual defects
Adhesion - concrete	>1.0 MPa
Dangerous substances	Comply with 5.3

Surface Preparation

The surface to be treated should be dry, sound and free from loose materials. New concrete should be at least 28 days old before application. Should the strength or the surface stability of the concrete base be in doubt, then we recommend a trial patch of Hydrocoat be applied to assess its suitability.

Mixing

Mix only full units. The base component should be thoroughly stirred to remove any settlement. The entire contents of the hardener should be added to the base and mixed thoroughly, avoiding incorporation of air. Care should be taken to prevent unmixed material remaining in the mixing vessel.



Technical properties of Hydrocoat.

Properties	Standard	Performance Requirement	Declared Value
Appearance			Clear/Pigmented Resin
Coverage			5-8m ² /Kg
Usable life			1-1.5 hour
Dry film thickness			75-85µm
Full cure			5 Days (@23°C)
S.G.			1.0 Clear 1.2 Pigmented
Total solids			30-60%
Application temperature			5°C to 35°C
Adhesion - concrete	EN1542	>1.0 MPa	>1.5MPa
Capillary Absorption & Permeability to Water	EN 1062-3	$W < 0.1 \text{kg/m}^2/\text{hr}^{-0.5}$	$W < 0.01 \text{kg/m}^2/\text{hr}^{-0.5}$
Slip Resistance	EN 13036-4		>40 units (Class 1)

Technical data shown are statistical results and do not correspond to guaranteed minima.

Tolerances are those described in appropriate performance standards.

1 N/mm² = 1 MPa

1 kN/mm² = 1 GPa

Chemical Resistance

Performance of Hydrocoat tested by immersion at 20°C against a range of aggressive chemicals.

Acids	
Hydrochloric Acid (conc.)	Fair
Nitric Acid, 25%	Fair
Sulphuric Acid, 50%	Fair
Lactic Acid, 10%	Fair
Acetic Acid, 10%	Fair
Citric Acid, 20%	Fair
Alkalines	
Sodium Hydroxide, 50%	Good
Ammonia, 10%	Good
Hydrocarbon Solvents	
White Spirit	Good
Methylated Spirits	Good
Xylene	Good
Butanol	Fair
Oils	
Lubricating Oil	Good
Petrol	Good
Skydrol	Fair
Aqueous Solutions	
Sodium Hypochlorite (Bleach)	Good
Sugar Solution (saturated)	Good
Salt Solution (saturated)	Good
Ammonium Sulphate, 10%	Good

Application Instructions

Hydrocoat should be applied to the deck/floor surface using a squeegee or roller, with an even liberal coating. Where the Hydrocoat is to receive a subsequent coating a light scatter of kiln dried aggregate (0.3-1.0mm) can be broadcast at a rate of approximately 3kg/m² into the resin whilst wet, producing a non-slip finish. Excess aggregate should be brushed away before application of the subsequent coating.

Packaging

Hydrocoat is available in 5kg units, (4.2Litre).

Aggregates are available in 25kg units.

Storage

The shelf life is 12 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost. If stored in cold conditions the containers should be warmed prior to use as this will assist mixing and application.

Health & Safety

Product Safety Data Sheets (SDS) are available from Nufins. SDS sheets are provided to help customers satisfy their safe handling, use and disposal needs as well as assist with any conformance requirements made locally by health and safety regulations.

SDS are continually updated to provide the latest information to our customers. We therefore recommend contacting our head office to obtain the most recent and accurate SDS before handling and using any product.

Limitations

Applications should only be made when the temperature is at least 3°C above the dew point. Do not apply at temperatures below 5°C or when rain is expected.

Disclaimer

The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied themselves independently as to the suitability of our products for their own particular purpose. In no event shall Nufins be liable for consequential or incidental damages.

Users must always refer to the most recent issue of the Technical Datasheets, copies of which will be supplied on request.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors. Technical contacts are available to provide further information and arrange demonstrations.