Nufins
A division of Universal Sealants (UK) Limited

HYDROCOAT

Water Dispersible Epoxide Floor Coating

Description

A water dispersible epoxide resin based wall and floor coating designed to provide a tough abrasion and chemically resistant 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.

Colours Available

Light Grey, Slate Grey, Mid Grey, Tile Red, Corn, Blue, British Racing Green, Mushroom, Magnolia, Black, White and Clear.

Advantages

- Non-flammable.
- Improves working environment.
- Suitable for use in areas where solvents are undesirable.
- Hardwearing, durable and long lasting.
- Easily and quickly applied by unskilled labour.
- Easily cleaned hence reducing maintenance costs.

Technical Information

Pot Life at 20°C:	2 hour	
Pot Life at 5°C:	In excess of 4 hours	
Initial Hardness:	18-24 hours	
Full Cure:	5-7 days	
Minimum application temp:	5°C	
Maximum application temp:	35°C	
Coverage:	5-8 M^2 per kilo	
Wet Film Thickness:	Clear	190 Microns
	Pigmented	153 Microns
S.G. (Clear):	1.05	
S.G. (Pigmented):	1.20	
Flash Point:	N/A	

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

Solvents	
White Spirit	Good
Methylated Spirit	Good
Xylene	Good
Butanol	Fair

Oils	
Lubricating Oil	Good
Petrol	Good
Skydrol	Fair

Aqueous Solutions	
Sodium Hypochlorite (Bleach)	Good
Sugar Solution (Saturated)	Good
Salt (Sodium Chloride Saturated)	Good
Ammonium Sulphate (10%)	Good

It should be noted that the ability of Hydrocoat to resist attack is dependent on the temperature and concentration of the chemicals. If in doubt contact Nufins technical department.

Surface Preparation

The surface to be treated should be dry, sound and free from loose materials. New concrete should be at least 7 days old before application. Oil and grease should be removed using Desolve. Damaged or worn areas should be repaired using Epicon Mortar. Any laitance should be removed by physical methods or by acid etching with Chemclean.

It is recommended that concrete substrates should not have a moisture content of more than 75% RH. This can be assessed using a hair hygrometer covered with polythene for 24 hours as recommended by BS 8203. On highly polished/power floated floors, mechnical preparation or acid etching will be necessary.

Mixing

The base resin should be thoroughly stirred to disperse any settlement. The entire contents of the hardener tin should be added to the base tin and the contents thoroughly mixed.

A mechanical stirrer with a suitable paddle must be used, consult our Technical Department for further information on suitable types.

Application Instructions

Materials should be applied to the floor using a brush or roller. Two coats are the normal recommendation and the second coat should be applied as soon as the first coat is dry enough to walk on and certainly within 24 hours. On certain surfaces it may be necessary to thin the first coat of Hydrocoat with up to 10% water to assist penetration. All equipment should be cleaned immediately with water.

A slip resistant finish can be achieved by the incorporation of aggregate into the second coat.

Depending on the final appearance this can be left or sealed with a further coat of Hydrocoat.

Storage

Hydrocoat should be stored at normal room temperature. If stored in cold conditions the containers should be warmed prior to use as this will assist mixing and laying. Do not allow to freeze.

Packaging

Hydrocoat Clear and Pigmented coatings are available in 5kg units.

Coverage

A 5 kg unit of Hydrocoat will cover approximately 35m^2 per coat but this is dependent on surface profile and porosity.

Health & Safety

Hydrocoat, like similar products, is capable of irritating unprotected sensitive skin, we therefore recommend the use of a suitable barrier cream and gloves.

Limitations

Do not apply at temperatures below 5^{O}C. Should the coatings be subject to chemical attack please consult our Technical Department for specific recommendations.

It is recommended that concrete substrates should not have a moisture content of more than 75% RH.

It should be noted that this is a water bourne emulsion of epoxy resin and high humidity combined with low temperatures will affect the physical properties of the coating.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.

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