

EPISEAL

Epoxide Resin Floor Coating

Description

A range of solvent based, chemically resistant floor sealers, available in clear and attractive colours, designed to seal, dustproof and protect concrete floors and other surfaces against the ingress of dirt, oil, grease and a variety of chemicals. Suitable for areas subjected to foot and light vehicular traffic such as factories, garage showrooms, dairies, kitchens, workrooms etc. Episeal may also be used as a sealer on resin based screeds where cleanliness is important or where particularly wet conditions are encountered.

Colours Available

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

Advantages

- Dusting eliminated along with the associated hazards.
- Improves working environment.
- Pre-weighed pack for simple mixing.
- Hardwearing, durable and long lasting.
- Easily cleaned hence reducing maintenance costs.
- Quickly and easily applied by semi-skilled labour.

Chemical Resistance

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

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

Technical Information

Pot Life at 20°C:	1 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:	6-10 M ² per kilo
Wet Film Thickness: Clear	159 Microns
Pigmented	129 Microns
S.G. (Clear):	1.05
S.G. (Pigmented):	1.20
Flash Point:	47°C (117°F)

It should be noted that the ability of Episeal 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 28 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. Should the strength or the surface stability of the concrete base be in doubt, then we recommend a trial patch of Episeal be applied to assess its suitability. On highly polished/power floated floors, mechanical preparation or acid etching will be necessary.

Mixing

The base resin tin 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 is recommended for this purpose.

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 Episeal with up to 10% Nuwash to assist penetration. All equipment should be cleaned immediately with Nuwash.

Packaging

Episeal Clear and Pigmented are available in 5kg units.

Coverage

A 5 kg unit of Episeal will cover approximately 40m² per coat but this is dependent on surface profile and porosity.

Storage

Materials should be stored at room temperatures, away from foodstuffs and out of the reach of children.

Health & Safety

Episeal and Nuwash are flammable liquids and adequate ventilation should be provided and all naked flames extinguished. Do not smoke during application. Episeal, 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°C. Should the coatings be subjected to chemical attack please consult our Technical Department for specific recommendations.

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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