

## Episeal S.F.

### Solvent Free Epoxide Resin Floor Coating

#### Description


A high build solvent free, chemically resistant floor sealer, available in clear and a range of 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. The low odour and absence of solvent makes Episeal SF ideal for use in abattoirs, breweries, bakeries, public areas and food preparation areas, where a non-tainting is essential. Episeal may also be used as a sealer on resin based screeds where cleanliness is important or where particularly wet conditions are encountered.

#### Advantages

- Suitable for use in areas where solvents are undesirable
- Dusting eliminated, as well as the associated hazards
- Chemical resistant
- Improves working environment
- Hardwearing, durable and long lasting
- Pre-weighed pack for simple mixing
- Easily and quickly applied by unskilled labour
- Easily cleaned hence reducing maintenance costs
- Suitable for applying to both walls and floors
- Available is a range of attractive colours, including Blue, Tile Red, Light/Mid/Slate Grey and clear

#### Technical Information

Specific Gravity: Clear	1.10
Pigmented	1.20
Wet film thickness: Clear	164 Microns
Pigmented	164 Microns
Application Temperature	5°C to 35°C
Substrate Application Temperature	5°C to 35°C
Flash Point	95°C (203°F)
Solids Content	100%
Pot life @ 20°C	40 Minutes
Pot life @ 5°C	In excess of 1.5 hours
Initial Hardness	18-24 hours
Full Cure	5-7 days
Coverage	5-7m <sup>2</sup> per kilo

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

#### Surface Preparation

The surface to be treated should be dry, sound, clean and free from loose materials. New concrete should be at least 28 days old before application. If strength or the surface stability of the concrete base is in doubt, it is recommend that a trial patch of Episeal is applied to assess its suitability. Vacuum grit blasting or mechanical preparation is recommended prior to application. On damaged or worn areas repairs should be made using Epicon Mortar.

#### Priming

The prepared floor should be primed using Epiprime, and allowed to dry. Apply by roller. Epiprime coverage: 6-8m<sup>2</sup>/kg.



## Technical properties of Episeal S.F.

Properties	Standard	Performance Requirement	Declared Value
Appearance			Clear/Pigmented Resin
Coverage			5-7m <sup>2</sup> /Kg
Usable life			40 Minutes
Dry film thickness			164µm
Full cure			5-7 Days
S.G.			1.1 Clear 1.2 Pigmented
Total solids			100 %
Application temperature			5°C to 35°C
Adhesion - concrete	EN1542	>1.0 MPa	>1.5MPa
Capillary Absorption & Permeability to Water	EN 1062-3	W<0.1kg/m <sup>2</sup> /hr <sup>0.5</sup>	W<0.01kg/m <sup>2</sup> /hr <sup>0.5</sup>
Slip Resistance	EN 13036-4		>40 (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/mm<sup>2</sup> = 1 MPa

1 kN/mm<sup>2</sup> = 1 GPa

## 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. A drill and suitable paddle is recommended for this purpose.

## Chemical Resistance

Performance of Episeal SF 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
Hydrocarbon Solvents	
White Spirit	Good
Methylated Spirits	Good
Xylene	Good
Butanol	Good
Oils	
Lubricating Oil	Good
Petrol	Good
Skydrol	Good
Aqueous Solutions	
Sodium Hypochlorite (Bleach)	Good
Sugar Solution (saturated)	Good
Salt Solution (saturated)	Good
Ammonium Sulphate, 10%	Good

The chemical resistance of Episeal SF is dependent on the temperature and concentration of the chemical. Contact Nufins technical department for advice.

## Application Instructions

The mixed Episeal SF should be applied to the primed floor within 24 hours of priming using a brush or roller. One or two coats are normally recommended. The second coat should be applied within 24 hours. Where the Episeal SF is to be used in wet work areas a light scatter of kiln dried sand (0.3-1.0mm) can be broadcast at a rate of approximately 3kg/m<sup>2</sup> into the first coat of resin whilst wet, producing a non-slip finish. Excess sand should be removed before overcoating. All equipment should be cleaned immediately after use with Nuwash.

## Packaging

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

Epiprime is available in 2.5kg units, (2.3 Litres).

Sands are available in 25kg bags.

## 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.