

## EPISEAL S.F.

### Solvent Free Epoxide Resin Floor Coating

#### Description

A high build solvent free, chemically resistant floor sealer, available in either clear or an attractive range of colours, designed to seal, dustproof and protect concrete floors and other surfaces against the ingress of dirt, oil, grease and a wide variety of chemicals. The low odour and absence of solvent makes Episeal S.F. ideal for use in abattoirs, breweries, bakeries, public areas and food preparation areas, where non tainting is essential. Episeal S.F. 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

- Suitable for use in areas where solvents are undesirable.
- 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.
- Suitable for applying to walls and floors.

#### Technical Information

Pot Life at 20°C:	40 minutes
Pot Life at 5°C:	In excess of 1.5 hours
Initial Hardness:	18-24 hours
Full Cure:	5-7 days
Minimum application temp:	5°C
Maximum application temp:	25°C
Coverage Per Coat:	5-7 M <sup>2</sup> per kilo
Wet Film Thickness:	Clear 181 Microns
	Pigmented 164 Microns
S.G. (Clear):	1.10
S.G. (Pigmented):	1.20
Flash Point:	95°C (203°F)

#### Chemical Resistance

Performance of Episeal S.F. 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

It should be noted that the ability of Episeal S.F. 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 S.F. be applied to assess its suitability. On highly polished/power floated floors, mechanical preparation or acid etching will be necessary.

## **Priming**

The prepared floor should be primed using Epiprime, a solvent free penetrating primer and allowed to dry. This is best carried out by roller.  
Epiprime Coverage: 6 - 8 m<sup>2</sup>/kg.

## **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 primed floor within 24 hours of priming using a brush or roller. One or two coats is the normal recommendation. When using two coats the second coat should be applied as soon as the first coat is dry enough to walk on and certainly within 24 hours. All equipment should be cleaned immediately with Nuwash.

## **Packaging**

Episeal S.F. Clear and Pigmented are available in 5kg units.

## **Coverage**

A 5 kg unit of Episeal S.F. will cover approximately 30m<sup>2</sup> 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 S.F. and Epiprime, like similar products, are 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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