

Episcreed

Epoxide Pigmented Screed

Description

Episcreed is a high performance, solvent free epoxide screed for application to concrete floors where properties of high strength and abrasion/chemical resistance are required. Suitable for applications within engineering, chemical plants, plating shops, laboratories, loading bays in breweries/dairies etc. and many other various locations.

Colours Available

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

Advantages

- Excellent general chemical resistance
- Hard wearing, abrasion resistant, durable topping
- Jointless screed eliminates potential sources of failure
- Good gripping surface for traffic
- Suitable for all pedestrian traffic, vehicular and forklift traffic

Technical Information

Compressive strength	70 MPa
Adhesion bond strength to concrete	>2.0 MPa, Substrate failure
Application Temperature	5°C to 35°C
Pot life	60 Minutes
Initial Hardness	24 Hours
Full Cure	7 Days @ 20°C
Coverage Rate	1.8 M ² /20 kg @ 6mm thick

Note: All testing performed under lab conditions, 20°C.

Chemical Resistance

Where chemical resistance is required or where the screed is laid in areas which are frequently under water, the system should be sealed using Episeal.

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 Episcreed is dependent on the temperature and concentration of the chemical. Contact Nufins technical department for advice.



Surface Preparation

All surfaces should be clean, dry, free from oil, grease and chemical contamination. Oil and grease can be removed using Desolve. Concrete surfaces should be free from laitance which should be removed by grit blasting or scarifying. If it is not practical to grit blast or scarify, it is possible to acid etch the floor with Chemclean. However, precautions must be made to prevent the concrete from absorbing excess moisture. 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. Should the strength or the surface stability of the concrete base be in doubt, then we recommend a trial patch of Episcreed be applied to assess its suitability. On highly polished/power floated floors, mechanical preparation or acid etching will be necessary.

Priming

Epiprime should be used. Mix Epiprime in the proportions supplied by adding the entire contents of the hardener tin to the contents of the base tin and thoroughly mix. Once mixed this should be applied to the substrate and rolled or brushed well in. If the Epiprime is totally absorbed the substrate should be re-primed. The Episcreed should be applied between 15 minutes and 3 hours after the application of Epiprime, while the Epiprime is still tacky.

Pot life	60 Minutes
Coverage	6-8 m ² /kg

Mixing

The Episcreed base and hardener components must be thoroughly mixed, by adding the contents of the hardener tin to the contents of the base tin and mixing with a slow speed drill with a suitable paddle. In cold conditions the materials should be stored between 10°C and 20°C in order to aid mixing. Once the base and hardener are thoroughly mixed they should be transferred to a suitable forced action mechanical mixer and the aggregate added slowly. Once all the aggregate is added mix for a further 3-4 minutes till a homogeneous mix is obtained.

Application Instructions

The floor area can be divided into strips one metre wide with timber laths the thickness of the required screed. The Episcreed is then laid in strips and worked into previously laid sections and then allowed to harden. The mixed Episcreed should be raked evenly over the primed surface and be tamped to ensure complete consolidation, then finished with a float kept clean by wiping with a cloth dampened with Nuwash. Episcreed may be carried up the wall to form a coving.

Expansion joints in the floor must be maintained and filled with an appropriate joint sealant.

In wet areas where Episcreed is to be subjected to aggressive chemical attack, it is recommended that the surface be sealed with either Episeal or Conseal Urethane for added protection. All tools and equipment should be cleaned immediately after use with Nuwash.

Packaging

Episcreed is available in 25kg units.

Epiprime is available in 2.5kg units.

Storage

The shelf life of Episcreed and Epiprime is 12 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost.

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

Minimum application temperature is 5°C.

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

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.