

EPISCREED

Epoxide Pigmented Screed

Description

Episcreed is a high performance, solvent free epoxide screed for application to concrete floors where properties of high strength, abrasion and 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

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

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, vehicular and forklift traffic.

Technical Information

Compressive Strength:	70 N/mm ² cured at 20°C for 7 days
Bond Strength to Concrete:	Stronger than integral strength of concrete.
Pot Life:	60 mins at 15°C
Initial Hardness:	24 hours at 15°C
Full Cure:	7 days at 15°C
Coverage Rate:	1.8 M ² /25 kg at 6mm thick
Epiprime	
Pot Life:	60 mins @ 15°C
Coverage:	6-8 M ² /kg

Chemical Resistance

Performance of Episcreed tested by immersion at 20°C against a range of aggressive chemicals. (Sealed)

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

Note: 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.

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

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 reprimed. The Episcreed should be applied between 15 minutes and 3 hours after the application of Epiprime, while the Epiprime is still tacky.

Mixing

The Episcreed base and hardener components should be thoroughly mixed in the base container. In cold conditions it will greatly aid mixing if the materials are stored in warm conditions.

Once the base and hardener are thoroughly mixed they should be transferred to a suitable forced action mechanical mixer such as a Creteangle or Daines and the aggregate added slowly. Once all the aggregate is added, mix thoroughly for 3 -4 minutes until a homogeneous mix is obtained.

Packaging

Episcreed is available in 25 kg units.
Epiprime is available in 2.5 kg units.

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.

Storage

Episcreed and Epiprime should be stored at room temperature. If stored in cold conditions the containers should be warmed prior to use as this will greatly aid mixing and application. Episcreed and Epiprime should be stored away from foodstuffs and out of the reach of children.

Health & Safety

Episcreed and Epiprime, like similar products, are capable of irritating unprotected sensitive skin, we therefore recommend the use of a suitable barrier cream and the wearing of gloves and goggles.

Limitations

Minimum application temperature 5°C.
It is recommended that concrete substrates should not have a moisture content of more than 75% RH.

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.



Kingston House, 3 Walton Road, Pattinson North, Washington, Tyne & Wear, NE38 8QA, United Kingdom.
TEL: +44 (0) 191 416 8360 FAX: +44 (0) 191 415 5966 W: www.nufins.com E: info@usluk.com

The information and/or specifications contained herein or in our literature or given by Nufins, its employees, distributors, agents or representatives with regard to its product or their use or application are given in good faith, but no liability is accepted for any loss or damage (including direct or consequential loss or loss of profits) from the use of products because Nufins has no control over how its products are used and applied.