

URASCREED

Polyurethane Pigmented Screed

Description

Urascreed is a high performance urethane screed for application to concrete floors where properties of high abrasion and chemical resistance are required. Suitable for applications within chemical plants, laboratories, breweries, dairies and food preparation areas and many more various locations especially where steam cleaning operations exist.

Colours Available

Tile Red, Blue, Light Grey, Slate Grey, Mid Grey, Magnolia, Corn, Mushroom and British Racing Green. Other colours are available depending on quantity.

Advantages

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

Chemical Resistance

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

Acids	
Hydrochloric Acid (Conc.)	Good
Nitric Acid 25%	Fair
Sulphuric Acid 50%	Fair
Lactic Acid 10%	Good
Acetic Acid 10%	Good
Citric Acid 20%	Good

Alkalines	
Sodium Hydroxide 50%	Good
Ammonia 10%	Good

Solvents	
White Spirit	Good
Methylated Spirit	Good
Xylene	Good
Butanol	Fair

Oils	
Lubricating Oil	Good
Petrol	Good
Skydrol	Poor

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:	45 - 60 minutes
Initial Hardness at 20°C:	24 hours
Full Cure at 20°C:	7 days
Coverage @ 5mm thick:	2.6 M ² /25 kg unit
Min. Application Temp:	5°C
Max. Application Temp:	30°C

Epiprime	
Pot Life:	60 mins @ 15°C
Coverage:	6 - 8 m ² /kg

Note: Where steam cleaning operations exist the design thickness of the screed should be at least 9mm.

It should be noted that the ability of Urascreed 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 Urascreed be laid 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 the primer should be applied to the substrate and rolled or brushed well in. If the Epiprime is totally absorbed the substrate should be reprimed.

Mixing

The Urascreed 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.

Application Instructions

The floor area can be divided into strips one metre wide with timber laths the thickness of the required screed. The Urascreed should be laid in strips and be worked into previously laid sections and then allowed to harden. The mixed Urascreed 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. Urascreed 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 Urascreed 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

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

Storage

Urascreed 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.

Urascreed and Epiprime should be stored away from foodstuffs and out of the reach of children.

Health & Safety

Urascreed 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.



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