

URASHIELD

Flow Applied Urethane Topping

Description

A range of self smoothing pigmented floor toppings designed to be laid with the minimum of effort to provide a smooth dense surface which is easily maintained and exhibits good chemical and abrasion resistance. These low odour formulations are ideally suited to food preparation areas as well as laboratories, showrooms and industrial applications. The rapid curing of the Urashield makes it suitable for wet areas which need to be brought back into commission quickly.

Colours Available

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

Urashield Standard:	Designed to be laid at a thickness of 2mm
Urashield Heavy Duty:	Designed to be laid at a thickness of 3 - 5mm.

Advantages

- Smooth surface without joints facilitating easy cleaning.
- Resistant to most common chemicals, fats, oils, etc.
- Available in several attractive colours.
- Excellent bonding characteristics enabling it to be laid on concrete, wood or metal.
- Suitable for pedestrian, light vehicular and forklift traffic.
- Can be made non-slip by the addition of aggregate.

Technical Information

Pot Life at 20°C:	45 - 60 mins
Initial Hardness at 20°C:	24 hours
Full Cure at 20°C:	7 days
Note: The above quoted figures are at 20°C, lower temperatures will result in longer pot life and curing times.	
Coverage: Urashield	
Standard at 2.0mm thick:	5.8 M ² /20 kg unit
Coverage: Urashield Heavy	
Duty at 4.0mm thick:	3.9 M ² /30 kg unit
Min. Application Temp:	5°C
Max. Application Temp:	30°C

Chemical Resistance

Performance of Urashield 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

It should be noted that the ability of Urashield to resist attack is dependent on the temperature and concentration of the chemicals. If in doubt contact the 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 by using a hair hygrometer covered with polythene for 24 hours as recommended by BS 8203. Steel surfaces should be prepared by grit blasting or grinding to remove all loose scale and rust. Should the strength or the surface stability of the concrete base be in doubt, then we recommend a trial patch of Urashield be applied to assess its suitability. On highly polished/ power floated floors, mechanical preparation or acid etching will be necessary.

Priming

Mix the Epiprime by adding the entire contents of the hardener tin to the base tin and thoroughly mix. Once mixed this should be applied to the substrate using a stiff brush or roller. It is essential that the primer forms a continuous film over the substrate and on porous substrates a second application may be necessary. The primer should be allowed to dry overnight for a maximum of 24 hours.

Epiprime Coverage: 6 - 8 m²/kg.

Mixing

Before mixing the components together the base tin should be stirred to disperse any settlement that may have occurred. The contents of the base tin and hardener tin should be transferred to a suitable forced action mechanical mixer such as a Creteangle or Daines and thoroughly mixed. Once mixed the aggregate component should be slowly added and mixed until homogeneous.

Packaging

Urashield Standard is available in 20 kg units.

Urashield Heavy Duty is available in 30 kg units.

Epiprime is available in 2.5 kg units.

Non Slip Aggregate is available in 5 and 40 kg units.

Application Instructions

The mixed Urashield should be poured on to the floor and spread to the required thickness using a 4mm serrated trowel for the Standard grade and a plain steel float for the Heavy Duty grade. Do not over work and immediately after trowelling roll firmly using a spiked nylon roller. This helps to release any entrained air and eliminates trowel marks. A variety of non-slip finishes can be obtained. It can be achieved by applying the Urashield Heavy Duty at 2.5 -3mm thickness or by using the Urashield Standard and applying a scatter of a non-slip aggregate at the appropriate rate. The finish obtained will be determined by the rate of spread and the type of aggregate used. This should be carried out approximately one hour after rolling. After curing, normally overnight, any excess aggregate should be removed by sweeping.

In floors with expansion joints these should be maintained and continued through the Urashield.

All equipment should be cleaned immediately after use with Nuwash.

At normal temperature (15°C) the floor will take light traffic after 24 hours.

Storage

Urashield 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.

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

Health & Safety

Urashield and Epiprime, like similar products, are capable of irritating unprotected sensitive skin, we therefore recommend the use of a suitable barrier cream and gloves should be worn.

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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