



BUILDING CHEMICALS SPECIALISTS

UNISHIELD SL Self-Levelling Floor Topping

Low Viscosity Epoxy Resin

Product Data

Unishield SL Self-levelling Floor Topping is a Solvent Less based Epoxy Resin which is seamless, providing a non-porous finish that is both decorative and easily cleaned. Product is according to European Standard EN 13813:2002 Screed materials and floor screeds - Screed materials - Properties and Requirements.

The system is formulated to resist the action of a wide range of chemicals and withstand wear.

Typical Uses

Unishield SL is used for the protection of concrete floors in the food and beverage, industrial and commercial warehouses, garages, power plants and other locations where a heavy duty smooth and cleanable floor topping is required.

Reasons for using Unishield SL

- Wide resistance to chemical and mechanical corrosion.
- Excellent abrasion resistance and durability.
- Provides a smooth easily maintained floor.
- Dustproof and lightfast.
- Excellent adhesion to clean sound surfaces.
- Slip resistant surface possible

Preparation

Surfaces must be free from loose dust, debris and other contaminants. Any oil or grease deposits must be removed by a hot detergent wash with a suitable cleaner available from Frinics Chemicals Ltd.

Any laitance or ingrained oil and grease will require mechanical removal by using grid blasting machine. Dust must be removed by vacuum machine before application of the product. Damage to substrate or incorrect falls should be rectified using suitable screed available from Frinics Chemicals before applying the Unishield system.

Substrates:

Concrete Substrate must be strong, stable and sound with a minimum compressive strength 25N/mm2.

For application on previous flooring please contact **Frinics Chemicals** for Technical services for specific advice.

Mixing

Unishield SL epoxy floor topping is supplied in a two part system, comprising of a UNI - Primer and Unishield SL Topping.

UNI - Primer - Add the **UNI - Primer** hardener unit to the contents of the **UNI - Primer base** container and mix thoroughly. Allow to stand for 5 minutes before application onto prepared concrete.

Topping - The pigmented base must be thoroughly stirred and agitated to disperse sedimentation and achieve consistency of colour. Using a suitable mechanical mixer add the **Unishield SL base** and **Unishield SL hardener** units together, mix thoroughly for 2 min. and then slowly add the **Unishield SL powder**. Mix thoroughly for a further 3 - 5 min. and then allow standing for 5 min. before use.

Application

Due to the expertise required in applying this product only approved applicators are used.

UNI - Primer - Using either a suitable brush or roller or airless spray apply the primer to achieve an even coating of surface area and allow curing overnight.

Unishield SL Topping - Apply the well mixed floor topping to the primer layer using a serrated trowel, followed by multiple wet rolling with a spiked roller to release any entrapped air. Care must be taken not to roll onto partially set areas. The substrate and material temperature should be at least 15°C during application.

Physical Data

Finish:	High Gloss Possible slip resistant surface	
Colours:		Coloured Liquid Transparent Liquid Grey, Red Green Beige, White, Floor Topping

1	I - Primer:2ishield SL Topping:3	
Maximum Operating	Pack sizes: UNI - Primer Ba UNI - Primer H	
Recommended Thicl UNI - Primer: Unishield S.L. To	kness: 200 microns 2.0mm (minimum) 2.5mm (standard)	Unishield SL P Unishield SL H Unishield SL P
Curing mechanism:	Chemical reaction	<u>Shelf life:</u> UNI - Primer C
Curing Time at 20°C Light Foot T Full Cure:	C: raffic: 24 hours 7 days	Unishield SL To
Pot life at 20°C UNI - Primer: Unishield SL T Practical coverage	30 minutes (approx.) opping: 30 minutes (approx.)	Unishield SL Pa Protect from extr shipment and s containers
UNI - Primer:	0.25kg/m ² r covers approximately 20m ² .	Limitations
Unishield SL Toppin A 30.0kg unit of scree 2mm thickness.	All Frinics produ of quality. They of Contract or Whilst Frinics	
Equipment Cleaner:	information or read and correct, it ca	
Unishield S	L Base: ~1.40 kg/ltr L Hardener: ~1.01 kg/ltr L Finish product: ~1.65 kg/ltr	control over the products, accept use of products.
All Density values at	23°C (EN ISO 2811-1)	Health and Sa Warning and info
Solid Content:	~100% (by volume) ~100% (by weight)	and use of our pro and in a Health Purchaser's resp
Mechanical Charact		are stored and ha
Compressive Streng	th: 75 N/mm ² (28 days / +23°C) EN 196-1	Safety Precau Read each com
Flexural Strength:	25 N/mm ² (28 days / +23°C) EN 196 – 1	before use. Mi component. Sa
Impact Resistance:	IR4	Application Inst during storage, 1
Bond Strength:	2.0 N/mm ² (EN 4624) 4.2 N/mm ² (EN 13892-8)	handling of this p cause fire or expl
Shore D Hardness:	80 (7 days/+23°C) DIN 53 505	Safety Equips Suitable eye prot
Abrasion Resistance	: 70 mg (8 days /+ 23°C) DIN 53 109	preparation.
Material is non Flam	to provide ade working in enclo	
		FRINI P.O. Bo 12, 28 th NICOS

UNI - Primer Base: UNI - Primer Hardener:	3.75 kg in 5 ltr tin 1.25 kg in 3 ltr tins		
Unishield SL Pigmented Unishield SL Hardener: Unishield SL Powder:	Base : 6.66 kg in 10 ltr tins 3.33 kg in 5 ltr tins 20 kg in paper bags		
Shelf life:UNI - Primer Component:12 months in unopened contain.			
Unishield SL Topping Base & Harden.			
Unishield SL Powder:	12 months in unopened container 24 months in unopened bag		

treme temperatures and keep dry during Discard damaged or open storage.

ucts are manufactured to a high standard y are sold subject to Frinics Conditions Sale - copy available upon request. strives to ensure that any advice, recommendations given are appropriate annot, since it does not have complete method and place of application of the any liability directly arising out of the

afety at Work

formation concerning the safe handling roducts are displayed on their containers th and Safety data sheet. It is the ponsibility to ensure that the materials andled safely.

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ponent's Material Safety Data Sheet lixed material has hazards of each afetv Precautions included with structions must be strictly followed handling and use. Improper use and product can be hazardous to health and olosion.

ment Required

otection and clothing must be worn this

ons should be taken during application equate ventilation, particularly when osed spaces.

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