



High Friction Surface Treatments & Waterproof Coatings In Accordance with BSEN1504

Tredseal System
Uradeck System
MMA Linemark
Epigrip System



www.nufins.com



About Us

As part of USL Group, Nufins has supplied materials to numerous projects since 1966 including power stations, water treatment schemes, ports, airfields, highways, bridges and tunnels. We take innovation seriously and we believe that this is necessary for a manufacturing company to prosper in our highly competitive industry. Nufins' investments in our laboratory and production facilities have enabled the development of innovative products, thereby helping to improve effectiveness and efficiency on construction sites.

Nufins has a global reputation for manufacturing and supplying high quality specialist products for highway maintenance, waterproofing, structural grouting, joint-sealing, corrosion control, concrete repair and protective coatings for concrete structures. For further information visit our interactive website www.nufins.com

Industry Accreditation

Nufins recognises the importance of membership to industry-affiliated specialist organisations, allowing us to keep in close contact with latest industry developments. We work in partnership with architects, consultants and contractors to improve product technology, quality and performance, thus benefiting all stakeholders in all aspects of the construction industry.

Materials are manufactured under the ISO 9001 Quality Management Scheme. All products for use in the repairs and protection of concrete structures are tested in accordance with BS EN 1504 and carry the CE label, thus providing Nufins' customers with confidence in the quality and reliability of our specialist product range.



OUR COMPLETE RANGE

- Concreting Chemicals
- Concrete Repair & Technical Mortars
- Concrete Protection
- Structural Grouting & Anchoring
- Bedding Mortars & Streetscape
- Joint Sealants & Fillers
- Industrial Flooring
- High Friction Surfacing &
- Waterproof Coatings
- Leak Sealing & Resin Injection
- Adhesives & Cleaning
- Surface Mounted Tactile Paving
- Accessories

Tredseal System



Combined Waterproofing & Wearing System

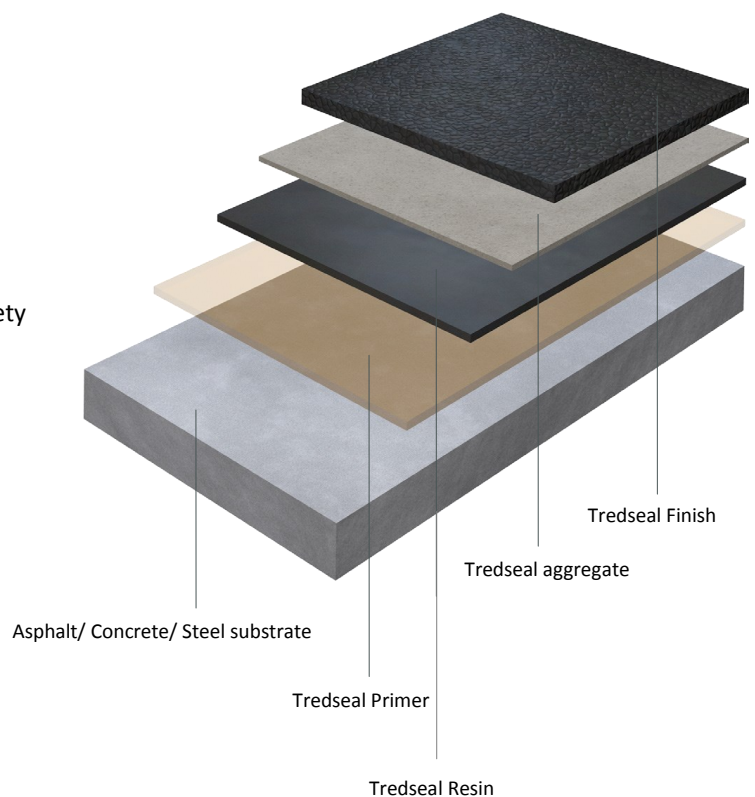
MMA METHACRYLATE RESIN

Description

Tredseal offers a 100% effective waterproof, wearing course and skid-resistant surface, lightweight alternative to mastic asphalt. The ease and speed of application to concrete, asphalt or metal substrates results in minimal possession time and a faster return to service. **Tredseal** can be used on a wide range of structures subjected to varying traffic loadings, providing a lightweight design.

System Benefits

- Cost effective. Easy and quick application
- Based on MMA technology
- Can be trafficked within 2-3 hours @ 15 to 20°C
- Aesthetically pleasing finish
- Tough, flexible and hard wearing surface
- Versatile surfacing suitable for application on a variety of substrates
- Rapid cure even at low temperatures
- Waterproof
- Formulated to comply with the requirements of EN 1504 Part 2
- Manufactured in accordance with ISO 9001



Standard Colours Tredseal Finish



Charcoal



Dark Grey

Applications

- Waterproof coating for silos, tanks & bunds
- Footbridges & Stair Treads
- Car Parks
- Rail, Air & Marine Ports
- Ramps & Pedestrian Footways
- Stadiums & Warehouses
- Industrial Storage Yards

(NB two applications of body coat are required to achieve a waterproof layer)



Technical Information

BS 7976-2:2002 Pendulum Testers, method of operation (using Slider 96)

UK Slip Resistance Group Guidelines for Horizontal Surfaces

	Condition	Average Slip Measurement (PTV)
Tredseal	Dry & Wet (water)	36+ low slip potential

Tredseal Primer (poor & porous surfaces)

Pot Life:	20-30 minutes
Overcoating Time:	60-90 minutes
Adhesion (Concrete/asphalt):	Greater than substrate strength
Adhesion (Steel):	>5 N/mm ²
Coverage:	0.2 - 0.4kg/m ²

Tredseal Resin

Pot Life:	20-30 minutes
Overcoating Time:	45-75 minutes
Elongation:	>40%
Adhesion (Concrete/asphalt):	Greater than substrate strength
Adhesion (Steel):	>5 N/mm ²
Coverage:	3.6kg/m ² @ 2mm

Tredseal Finish

S.G:	1.3 Pigmented	1.0 Clear
Pot Life:	20 minutes	
Trafficking Time:	> 2 hours	
Hardness:	>50 (Shore D)	>90 (Shore A)
Tensile Strength:	>6 N/mm ²	
Coverage:	0.5kg/m ² (approx. 2m ² /kg)	

All above pot life & hardening times vary at different temperatures

Tredseal System



Installation Instructions

NB Mixed material left in the mixing drum for any length of time much reduces pot life.

1. Priming

The correct amount of BPO catalyst powder must be added to Part B before mixing with Part A. For full mixing and application instructions, refer to the product technical datasheet.

Tredseal Primer is a low viscosity methacrylate resin for all surfaces once mixed. Primer should be poured immediately onto the substrate then spread using a roller at a rate of 0.2 - 0.4 kg/m².

Leave to cure approximately 60-90 minutes.

Asphalt should be 28 days old, or conditioned to remove surface contaminants.

2. Body Coat

Add the correct amount of BPO catalyst powder to **Tredseal Resin** and mix together. For full mixing and application instructions, refer to the product technical datasheet.

After mixing, the **Tredseal Resin** body coat should be poured immediately onto the substrate and spread using a flat edged squeegee to give a wet film thickness of between 2mm to 3mm. Coverage will depend on surface texture and roughness and should provide a minimum of 2mm cover over the high points in the surface texture.

Back roll using a spiked roller to ensure even coverage and to provide a level, even surface.

Whilst **Tredseal Resin** body coat remains wet, and when it has gained sufficient consistency, broadcast into the surface a kiln dried silica sand or bauxite with a nominal size of 0.7-1.2mm, to achieve an even textured surface. Surplus aggregate may be removed by sweeping, once the **Tredseal Resin** body coat has cured.

Leave to cure approximately 45-75 minutes.

3. Sealer Coat

The correct amount of BPO catalyst powder should be added to **Tredseal Finish** resin and mixed. For full mixing and application instructions, refer to the product technical datasheet.

Tredseal Finish should be applied over the aggregate using a roller or brush. Coverage which will be approximately 0.5kg/m².



Uradeck System



Fast Setting Anti-Slip Surfacing & Waterproof Coating

POLYURETHANE RESIN

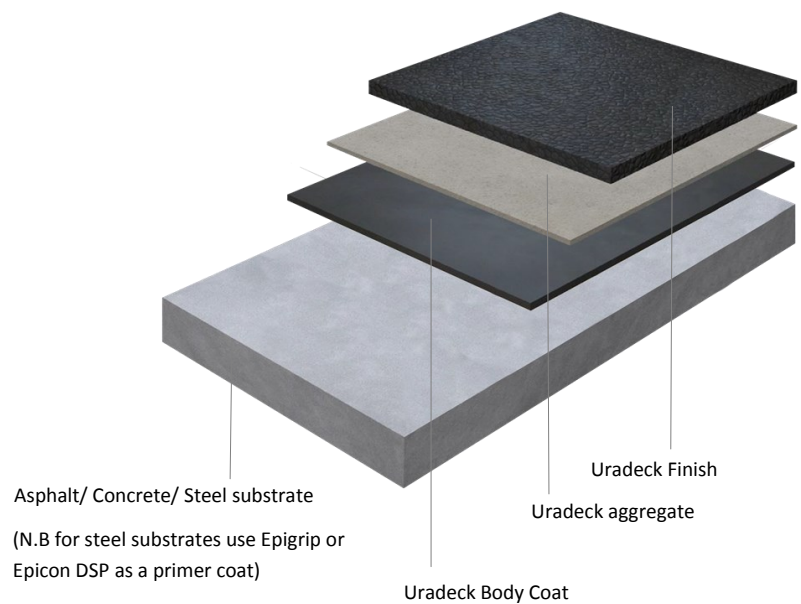
Description:

A two component polyurethane body coat characterised by its inbuilt flexibility, even at low temperatures. **Uradeck BC** provides excellent adhesion to a variety of substrates. By broadcasting slip resistant aggregate into the surface of the wet resin a highly durable anti-slip system can be produced.

The application of a decorative sealer coat is achieved with **Uradeck Finish**.

System Benefits

- Excellent adhesion
- Inbuilt flexibility
- Good chemical and abrasion resistance
- Excellent weathering characteristics
- Fast setting for early trafficking
- Decorative finish
- Formulated to comply with the requirements of EN 1504 Part 2
- Manufactured in accordance with ISO 9001



Standard Colours Uradeck Finish



Applications

- Waterproof coating for silos, tanks & bunds
- Footbridges & Stair Treads
- Car Parks
- Rail, Air & Marine Ports
- Ramps & Pedestrian Footways
- Stadiums & Warehouses
- Industrial Storage Yards



Technical Information

BS 7976-2:2002 Pendulum Testers, method of operation (using Slider 96)

UK Slip Resistance Group Guidelines for Horizontal Surfaces

	Condition	Average Slip Measurement (PTV)
Uradeck System	Dry & Wet (water)	36+ low slip potential

Uradeck BC

Pot Life:	20 minutes @ 20°C
Overcoating Time:	2 hours @ 20°C
Adhesion (Concrete/asphalt):	Greater than substrate strength
Adhesion (Steel):	>5 N/mm ²
Coverage:	5kg: 4.2m ² per pack @ 1mm
	25kg: 21m ² per pack @ 1mm

Uradeck Finish

S.G:	1.4
Pot Life:	20 minutes @20°C
Hardness:	70 (Shore D)
Tensile Strength:	>10 N/mm ²
Coverage:	0.5kg/m ² (approx. 2m ² /kg)

All above pot life & hardening times vary at different temperatures



Installation Instructions

NB Mixed material left in the mixing drum for any length of time much reduces pot life.

Must be applied to dry surfaces in dry weather.

1. Priming

Is not usually required on concrete or asphalt. Asphalt should be 28 days old, or conditioned to remove surface contaminants. Steel substrates should be primed with **Epigrip** or **Epicon DSP**.

2. Body Coat

Add contents of smaller tin to the larger tin then mix thoroughly with drill and whisk. Pour mixed **Uradeck BC** resin onto the substrate and spread to achieve a 1-2mm layer when using pedestrian grade sand or bauxite.

Coverage will depend on surface texture and roughness and should provide a minimum of 2mm cover over the high points in the surface texture.

Whilst **Uradeck BC** remains wet, immediately fully blind the resin with a kiln dried sand or bauxite with a nominal size of 0.7-1.2mm, to achieve an even textured surface. Surplus aggregate may be removed by sweeping, once the **Uradeck BC** body coat has cured.

Leave to cure approximately 60 minutes.

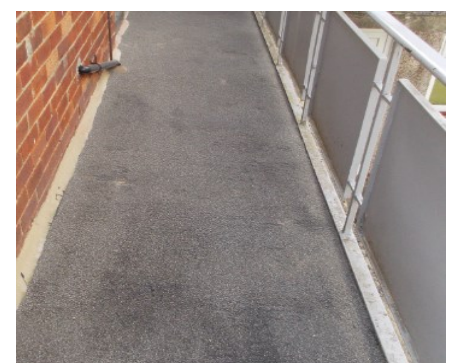
3. Sealer Coat

Uradeck Finish should be applied over the aggregate using a roller or brush. Coverage which will be approximately 0.5kg/m².

Uradeck BC resin may be black or buff in colour.

Bauxite grit available in grey or buff.

For steps or stairways, apply masking tape to the front and side of treads, prior to application, in order to restrain resin and avoid runs.



Line Marking Paint

MMA METHACRYLATE RESIN

Description

MMA Linemark is a methacrylate based line marking paint designed for application to a wide range of surfaces, offering excellent colour stability, it is both hard wearing and chemically resistant with an inherent long-term flexibility.

MMA Linemark is available in three different grades;

Standard - Designed for external applications with heavy traffic

Reflective - Designed for external application with heavy traffic where greater visibility of demarcation is required

Smooth - Designed for internal applications or for light trafficked areas

System Benefits

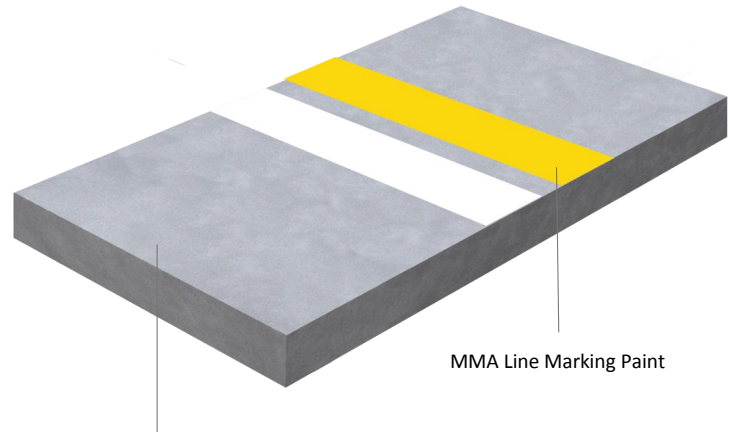
- Available in standard and high luminescence grades
- Easy application
- Quick drying, can be trafficked within 1 hour
- Excellent UV/colour stability
- Very good adhesion to most substrates
- Inherent flexibility provides excellent ductility

Standard Colours



Applications

- Carriageways
- Footbridges & Stair Treads
- Car Parks
- Rail, Air & Marine Ports
- Ramps & Pedestrian Footways
- Stadiums & Warehouses
- Hospitals
- Municipal Buildings



Asphalt/ Concrete/ Steel substrate

S.G:	1.95
Pot Life:	30 minutes @ °20C
Application Range:	-5°C to 30°C
Flash Point:	10°C
Coverage:	0.3 - 0.5 m ² /kg



Epigrip System



Safety Flooring Wearing Course

EPOXY RESIN

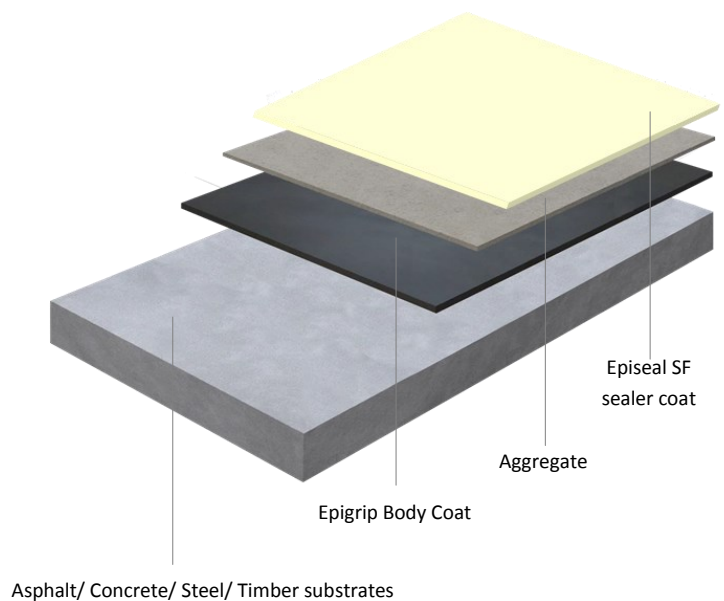
Description

A two component resin extended epoxy high build coating, characterised by its excellent adhesion and resistance to water and a wide range of chemicals. **Epigrip** provides a heavy duty slip resistant flooring system by the incorporation of an exposed aggregate into the wet film, which will last for many years in both internal and external situations.

A sealer coat of **Episeal SF** will extend the life of the system.

System Benefits

- No primer required
- Excellent bond strength
- Good chemical and abrasion resistance
- Inbuilt flexibility
- Moisture tolerant resin
- Formulated to comply with the requirements of EN 1504 Part 2
- Manufactured to BSI ISO 9001 EN29001



Standard Colours Bauxite



Applications

- Upgrading of concrete floor for industrial use. Suitable for vehicular and forklift traffic.
- Footbridges & Stair Treads
- Car Parks
- Rail, Air & Marine Ports
- Ramps & Pedestrian Footways
- Stadiums & Warehouses
- Hospitals



Technical Information

BS 7976-2:2002 Pendulum Testers, method of operation (using Slider 96)

UK Slip Resistance Group Guidelines for Horizontal Surfaces

	Condition	Average Slip Measurement (PTV)
Epigrip System	Dry & Wet (water)	36+ low slip potential

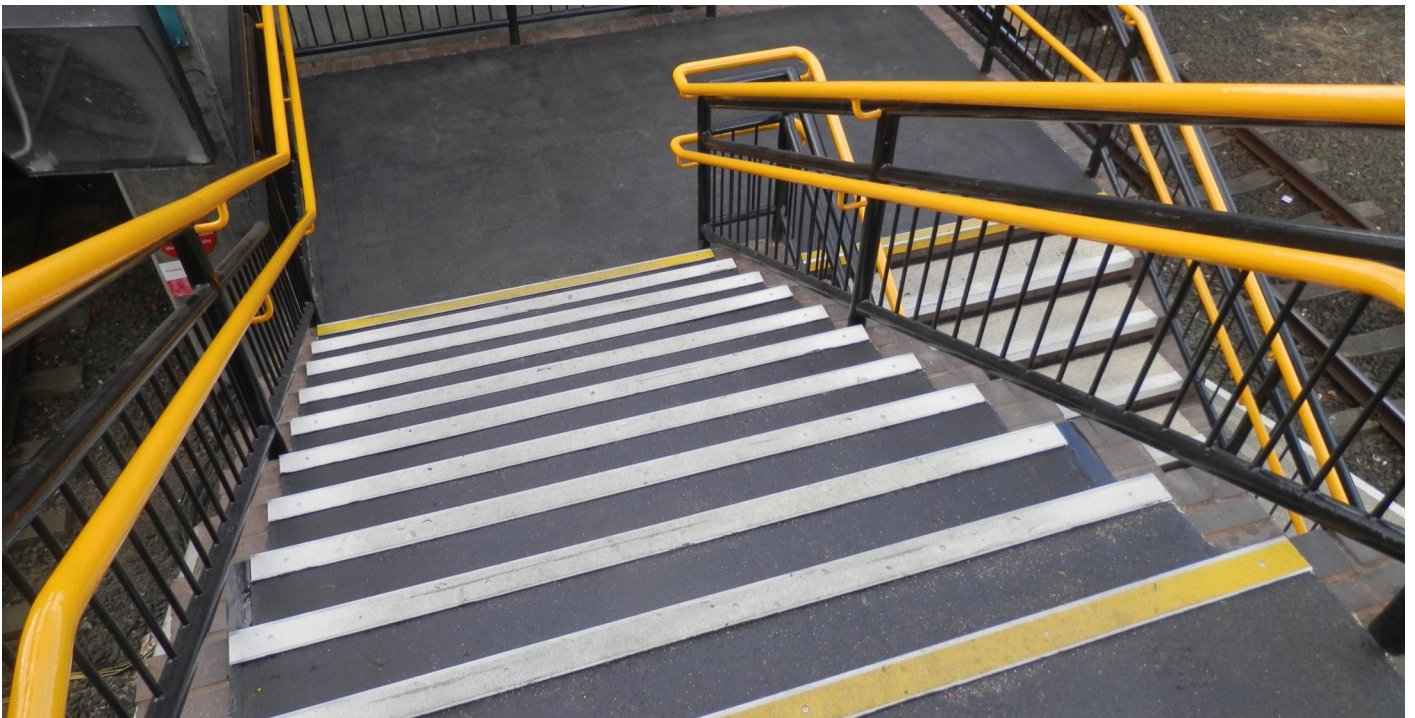
Epigrip

Pot Life:	40 minutes @ 20°C
Overcoating Time:	12 hours @ 20°C
Adhesion (Concrete/asphalt):	Greater than substrate strength
Adhesion (Steel):	>5 N/mm ²
Coverage:	5kg: 4m ² per pack @ 1mm

Episeal SF Clear

S.G:	1.1
Pot Life:	40 minutes @ 20°C
Coverage:	0.5kg/m ² (approx. 2m ² /kg)

All above pot life & hardening times vary at different temperatures



Head Office

Kingston House

3 Walton Road

Pattinson North

Washington

Tyne & Wear

NE38 8QA

T: +44(0)191 416 8360

E: info@usluk.com

W: www.nufins.com