

Nucoat UVS

Polyaspartic Finish Coat

A rapid curing coating which provides a decorative resin encapsulation for anti-slip aggregate. Nucoat UVS is characterised by its tough, hard wearing and weather resistant properties and may be used as a coating for commercial and industrial concrete floors with Class U4 finish or for protecting existing painted surfaces. Complies with the requirements of EN 1504 Part 2.

Colours Available: Clear, Grey, Black Grey, Traffic Red, Traffic Yellow, Super-white, Purple, Green and Blue.

Advantages


- Tough & extremely durable
- UV stable
- Protective & weather resistant
- Improves aggregate binding
- Provides an instant waterproof & decorative finish
- Available in a range of colours & Clear

Applications

- Carpark decks, footbridges, walkways & mezzanine floors
- Ideal for marking parking bays, traffic routes etc.
- Commercial & industrial floors

Technical Information

Type	Polyaspartic
S.G.	1.6 Pigmented 1.1 Clear
Pot life	20 minutes @ 20°C
Hardness	90 (Shore D)
Tensile strength	>10 MPa
Tear strength	11 MPa
Coverage	0.7 kg/m ² over 0.3 - 1mm aggregate 0.2-0.4 kg/m ² over painted surfaces and concrete Class U4 Finish

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Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear. NE38 8QA 17 0086-CPR-594215	
EN 1504-2 Surface protection system Coating	
Permeability to water vapour	Class 1
Capillary absorption & permeability to water	<0.1 kg/m ² .h ^{0.5}
Adhesion	≥1.5 MPa
Dangerous substances	Complies with 5:3

Surface Preparation

Dry Aggregate Blinded Surfaces

Once body coat resin is sufficiently hard, all loose aggregate must be removed from the deck/floor prior to application of Nucoat UVS.

Concrete Surfaces: Class U4 Finish

Onto prepared & dry concrete surfaces with a Class U4 finish, apply Uniseal Primer P2 thinly by roller, ensuring no ponding. Allow this coat to fully cure for approximately 1 hour prior to application of Nucoat UVS.

Painted Surfaces

Mechanical abrasion will improve adhesion over existing coatings. As a minimum, floors should be thoroughly cleaned to remove all traces of dirt, oil and grease and allowed to dry.



Technical Data for Nucoat UVS

Properties	Standard	Performance Requirements	Declared Value
Appearance			Clear/Pigmented Resin
Solids content			>95 %
Specific gravity			1.6 Pigmented 1.1 Clear
Viscosity			2000 cps
Working life			20 minutes
Coverage			0.7 kg/m ² over 0.3-1 mm aggregate 0.2-0.4 kg/m ² over painted surfaces and concrete Class U4 Finish
Application temperature			2-30°C
Permeability to water vapour	EN ISO 7783-1	S _D <5 m	S _D <5 m (Class I)
Capillary absorption & permeability to water vapour	EN 1062-3	W <0.1 kg/m ² .h ^{0.5}	W <0.1 kg/m ² .h ^{0.5}
Tear strength			11 MPa
Tensile strength	BS 2782-3		>10 MPa
Slip resistance	EN 13036-4		Class 1
Abrasion Resistance (1000 cycles)	EN ISO 5470-1	≤3000 mg	714 mg
Adhesive bond strength	EN 1542	>1.5 MPa	2.5 MPa
Adhesion after freeze/thaw (50 Cycles with salt)	EN 13687-1	>1.5 MPa	>2.0 MPa
Adhesion after thunder shower (30 Cycles)	EN 13687-2	>1.5 MPa	>2.0 MPa
Adhesion after dry cycling (30 Cycles)	EN 13687-4	>1.5 MPa	>2.0 MPa

Technical Data shown are statistical results and do not correspond to guaranteed minima.

Tolerances are those described in appropriate performance standards.

Tests performed under laboratory conditions, (23°C) unless otherwise stated.

1 N/mm² = 1 MPa

Mixing

Mix only full units using a variable speed high torque drill with a suitable helical stirrer. The base component should be thoroughly pre-stirred to remove any settlement. The entire contents of the hardener should be added to the base and mixed thoroughly, avoiding incorporation of air. Care should be taken to prevent any unmixed material remaining on the sides or base of the container. Xylene must be added to the base tin to improve roller-application. 200-400ml Xylene per 5kg Nucoat UVS

2 litres Xylene per 25kg Nucoat UVS

Application Instructions

Aggregate Blinded Surfaces

Mixed Nucoat UVS should be immediately pour-applied onto the non-slip system/prepared surface and spread using a flat bladed squeegee, then back-rolled with a medium nap roller to obtain a uniform finish. Coverage approximately 0.7 kg/m².

Concrete Class U4 Finish and Painted surfaces

Mixed Nucoat UVS should be immediately pour-applied onto the prepared surfaces and spread by roller at a rate of 0.2-0.4 kg/m².

The incorporation of fine kiln dried sand into the resin and back- rolled will provide an anti-slip finish, if required.

Cleaning

Keep all mixing equipment and tools continuously cleaned using Xylene and avoid product build up.

Chemical Resistance

Performance of Nucoat UVS. Tested by immersion at 20°C against a range of aggressive chemicals.

Kerosene	Good
Petrol & Diesel	Good
Mineral/Synthetic oil	Good
Hydraulic fluids	Good
Road Salts	Good
Dilute Acids	Good
Dilute Alkalis	Good

Chemical resistance of Nucoat UVS is dependent on temperature and concentration of the chemical. Please contact Nufins technical department for advice.

Packaging

Nucoat UVS is supplied in 5kg & 25kg units.

Xylene is available in 5 & 20 litre drums.

Storage

The shelf life is 12 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost. If stored in cold conditions the containers should be warmed prior to use as this will assist mixing and application procedure.

Health & Safety

Product Safety Data Sheets (SDS) are available from Nufins. SDS sheets are provided to help customers satisfy their safe handling, use, and disposal needs as well as assist with any conformance requirements made locally by health and safety regulations.

SDS are continually updated to provide the very latest information to our customers. We therefore recommend contacting our head office to obtain the most recent and accurate SDS before handling and using any product.

Limitations

Applications should only be made when the temperature is at least 3°C above the dew point. Do not apply at temperatures below 2°C. For application to new concrete and asphalt, please contact Nufins technical department.

Disclaimer

The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied themselves independently as to the suitability of our products for their own particular purpose. In no event shall Nufins be liable for consequential or incidental damages.

Users must always refer to the most recent issue of the Technical Datasheets, copies of which will be supplied on request.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors. Technical contacts are available to provide further information and arrange demonstrations.