

Uradeck BC

Polyurethane Body Coat

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 surfacing including concrete, steel and asphalt. By broadcasting slip resistant aggregate into the surface of the wet resin a highly durable non-slip system can be produced. This system has been formulated to comply with the requirements of EN 1504 Part 2.

Advantages


- Excellent Adhesion
- Inbuilt flexibility
- Waterproof
- Good chemical and abrasion resistance
- Excellent weathering characteristics
- Rapid setting for early trafficking
- Decorative finish

Applications

- Waterproof coating for silo's, tanks and bunded areas
- Body coat resin for production of non-slip coating on industrial decks, foot bridges and suspended floors/walkways
- The addition of a single size aggregate may be blended with the Uradeck BC to produce a Scratch Coat/Mortar. Addition rate should be in the region of 4:1 to 6:1 aggregate to resin, depending on requirements

Technical Information

Appearance	Pigmented Resin
Pot Life @ 20°C	10-65 Minutes
Pot Life @ 5°C	20-120 Minutes
Fast-Setting Grade, Pot Life @ 5°C	10-20 Minutes
Trafficable Time	2 Hours
Full Cure	7 Days
Application Temperature	1°C to 30°C
Coverage	5kg = 4.2m ² @ 1mm 25kg = 21m ² @ 1mm

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Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear, NE38 8QA 13 0086-CPD-594215	
EN 1504-2 Surface protection product 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

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 the surface can not be blasted acid etching with 'Chemclean' is suitable. Precautions must be taken to prevent the concrete from absorbing excess moisture. The concrete substrate should not have a moisture content greater than 75% relative humidity. This can be assessed using a hair hygrometer covered with polythene for 24 hours, as recommended by BS8203. Should the strength of the concrete base be in doubt then we recommend a trial patch of Uradeck BC be applied to assess its suitability. Steel surfaces should be prepared by grit blasting or grinding to remove all loose scale and rust.



Technical properties of Uradeck BC

Properties	Standard	Performance Requirements	Declared Value
Appearance			Pigmented Resin
Solids Content			100%
Specific Gravity			1.2
Viscosity			2100 Cps
Working Life			10-65 Minutes
Minimum film thickness			0.5mm
Permeability to Water Vapour	EN ISO 7783-1	$S_D < 5m$	$S_D < 5m$ (Class I)
Capillary Absorption & Permeability to Water	EN 1062-3	$W < 0.1 \text{ kg/m}^2/\text{Hr}^{0.5}$	$W < 0.01 \text{ kg/m}^2/\text{Hr}^{0.5}$
Shear Adhesion to Steel			6 MPa
Tensile Strength	BS 2782-3		5.4 MPa
Elongation	BS 2782-3		80%
Slip Resistance	EN 13036-4		Class 1
Adhesive bond Strength	EN 1542	$> 1.5 \text{ MPa}$	$> 2.0 \text{ MPa}$
Adhesion After Freeze/Thaw (50 Cycles with salt)	EN 13687-1	$> 1.5 \text{ MPa}$	$> 2.0 \text{ MPa}$
Adhesion after Thunder Shower (30 Cycles)	EN 13687-2	$> 1.5 \text{ MPa}$	$> 2.0 \text{ MPa}$
Adhesion After Dry Cycling (30 Cycles)	EN 13687-4	$> 1.5 \text{ MPa}$	$> 2.0 \text{ MPa}$

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

1 kN/mm² = 1 GPa

Mixing

Only mix full units. The entire contents of the hardener should be added to the base and slowly stirred until homogenous. Care must be taken to avoid incorporating air into the mix. Care should be taken to prevent unmixed material remaining on the side of the mixing vessel

Application instructions

The mixed Uradeck BC should be applied to the deck/floor surfaces using a squeegee, ensuring that all areas are given a liberal coating of between 0.5mm to 2mm. The aggregate should be applied to the surface whilst it remains wet. Should the Uradeck BC lose its tackiness then a further coat should be applied as above.

If using the Uradeck BC as a non-slip waterproof coating then two 1.0mm thick applications should be made. The first being resin only which is then allowed to cure for 4-6 hours before being over coated with the second layer of Uradeck BC. Into this a scatter of aggregate is made to achieve the non-slip finish.

Where Uradeck BC is to be used simply as a waterproofing membrane it should be brush or squeegee applied at a nominal thickness of 1.0 to 2.0mm.

Application Instructions to Steel

Ensure the surface is prepared by grit blasting. The surface must be dry and free from any contaminates. Apply a primer coat of mixed Epicon DSP ensuring it is evenly spread without leaving pinholes. Apply the mixed Uradeck BC after approximately 12 to 24 hours, whilst the surface is still tacky.

Sealer coat

An optional sealer coat of Episeal SF or Uradeck Finish may be applied to encapsulate the grit to extend durability and longevity.

Aggregate

Bauxite aggregate is available for pedestrian trafficked areas (0.5 to 1.5mm) and vehicular trafficked areas (1 to 3mm).

Quartz aggregate is also available for pedestrian trafficked areas (0.5 to 2mm).

Application rate for full blind is 5kg/m².

Packaging

Uradeck BC is available in 5kg and 25 kg units.

Aggregates are supplied in 25kg units.

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.

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 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

When applying at temperatures below 5°C please contact our technical department. In addition, asphalt substrates must be aged/conditioned prior to application.

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.