



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

## Uradeck BC Data Sheet

### Specification notes

Product: **Uradeck BC**

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# Uradeck BC



# Nufins

## 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 slip resistant aggregate and is used as a bonding coat for Uradeck EMS. This system has been formulated to comply with the requirements of EN 1504 Part 2.

### Advantages

- Excellent Adhesion.
- Inbuilt flexibility.
- Good chemical and abrasion resistance.
- Excellent weathering characteristics.
- Rapid setting.
- Complies with requirements of EN1504 Part2.

### Applications

- Can be used on its own or as the bonding coat layer of a hard wearing high build membrane system, forming a waterproof and decorative coating for industrial decks and suspended floors/walkways.

### 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 <sup>2</sup> @ 1mm 25kg = 21m <sup>2</sup> @ 1mm
Shear Adhesion to Steel	6 N/mm <sup>2</sup>
Tensile Strength	5.4 N/mm <sup>2</sup>
Elongation	80%

### 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 these are not practical 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 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.

### Mixing

Use only full packs. The entire contents of the hardener tin should be added to the base tin and slowly stirred until thoroughly mixed, taking care not to entrain air into the mix. Care should be taken to prevent unmixed material remaining on the side of the tin.

### 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.

### Aggregate

Bauxite aggregate is available for pedestrian trafficked areas (0.5 to 1.5mm) and vehicular trafficked areas (1 to 3mm). Quartz aggregate is available for pedestrian trafficked areas (0.5 to 2mm). Application rate for full blind is 3kg/m<sup>2</sup>.

**Technical Data for Uradeck BC.**

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

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.



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**Packaging**

Uradeck BC is available in 5kg and 25 kg units, (4.2Litre and 21Litre packs respectively).

**Storage**

Uradeck BC should be stored at normal room temperature. If stored in cold conditions the containers should be warmed prior to use as this will assist mixing and application. Uradeck BC should be stored away from food stuffs and out of reach of children.

**Health & safety**

Uradeck BC, like similar products is capable of irritating unprotected sensitive skin. We therefore recommend the use of a suitable barrier cream and gloves.

**Limitations**

Do not apply at temperatures below 5°C.

**Technical support**

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



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