

Covercrete

UV & Anti-Carbonation Coating for Concrete

Description

A decorative water borne acrylic coating designed to drastically reduce the diffusion rate of carbon dioxide into concrete and to provide a highly durable, weather resistant surface which will maintain its anti-carbonation properties over many years.

Covercrete has been designed to meet the requirements of EN1504 Part 2.

Colours Available

White, Flake Grey, Light Grey, Magnolia, Corn, Mushroom, Black, other British Standard colours available on request.


Advantages

- Provides superior ingress protection to any structure.
- Ready to use, rapid drying formulation.
- Excellent adhesion to all surfaces.
- Damaged areas easily recoated and retreated.
- Highly economical.
- Easy to apply by brush or roller.
- A sprayable grade is also available.
- Extremely durable and weather resistant coating.
- Independently tested by Taywood Engineering.

Technical Information

Coverage	4-8m ² /Litre
Dry Film Thickness (2 coats)	240µm @ 4m ² /Litre 200µm @ 5m ² /Litre
Drying Time	1-6 Hours
S.G.	1.4
pH	8.5
Total Solids	65%
Minimum Application Temperature	5°C
Film Tensile Strength	11 MPa
Film Elongation	100%
Flash Point	Non-flammable

NB. Coverage will be affected by surface profile and porosity.

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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 system for concrete Coating	
Permeability to CO ₂	s _D >50m
Permeability to Water Vapour	Class 1
Capillary Absorption & Permeability to Water	<0.1 kg/m ² /H ^{0.5}
Adhesion	≥0.8 MPa
Dangerous substances	Complies with 5.4

Surface Preparation

All surfaces should be clean, dry and free from oil, grease and loose materials. Water blast cleaning or brushing are the preferred methods of preparation, special attention should be paid to moss and lichen, these areas should be treated with *Fungicidal Wash*. Oil and grease should be removed using *Desolve*.



Technical properties of Covercrete.

Properties	Standard	Performance Requirement	Declared Value
Appearance			Pigmented Emulsion
S.G.	EN ISO 2811-1		1.40
pH			8.5
Non-volatile matter	EN ISO 3251		60-70%
Viscosity	EN ISO 3219		7700Cps
Drying time	EN ISO 1517		1-6 Hours
Application temperatures			5°C to 35°C
Coverage			4 to 8 m ² per litre
Dry film thickness (2 coats)			240µm @ 4m ² /Litre 200µm @ 5m ² /Litre
Film tensile strength	BS 2782-3		11 MPa
Film elongation	BS 2782-3		100%
Flash point			Non-flammable
Permeability to CO ₂ (EN1062-6)	EN 1062-6	CO ₂ S _D >50m	>200m
Diffusion resistance to CO ₂ (Dry film thickness of 150µm)			1.06 x10 ⁻⁷ cm ² /s ⁻¹
R. Value Sc. Value			210 metres 520mm
Water vapour diffusion S _D	EN ISO 7783-1	S _D <5m	0.3m (Class 1)
Capillary absorption & permeability to water (EN1062-3)	EN 1062-3	<0.1 kg/m ² /H ^{0.5}	<0.1 kg/m ² /H ^{0.5}
Thunder shower cycling (EN13687-2)	EN 13678-2	≥0.8 MPa	1.0 MPa
Artificial weathering			No visual defects

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

Tolerances are those described in appropriate performance standards.

1 N/mm² = 1 MPa

1 kN/mm² = 1 GPa



Priming

In some cases, depending upon substrate conditions, it is advisable to apply one coat of *Stabilising Primer W.B.* onto the dry prepared surface. Do not apply the Covercrete until the primer is dry. Clean all equipment used for application of *Stabilising Primer W.B.* with water. It is permissible on sound concrete surfaces which may be damp to dispense with the *Stabilising Primer W.B.* in which case the first coat of Covercrete should be thinned with up to 5% water.

Stabilising Primer W.B.

Coverage	5-10m ² per litre
S.G.	1.01
Appearance	Milky white liquid

Application Instructions

Covercrete may be applied by brush, roller or spray onto the prepared surface. A second coat should be applied at any time after the first coat has dried. All equipment should be cleaned immediately after use with clean water. For spray application contact our technical department.

Packaging

Covercrete and Stabilising Primer W.B. are available in 5 litre and 10 litre units.

Storage

Shelf life of Covercrete and Stabilising Primer W.B. is 6 months when stored unopened at room temperature, protected from frost. Keep out of the reach of children.

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

Do not use where concrete is to be submerged under water. Do not apply at temperatures below 5°C or in damp conditions or when rain is expected.

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.

