

Nucem Skim Coat

Flexible Cementitious Levelling Coat

Description

A polymer modified cementitious levelling or fairing coat with integral flexibility and waterproofing characteristics. Ideal for the treatment of repaired concrete elevations to protect the unrepaired areas against further attack by chlorides or carbonation and to provide an overall uniform appearance or a consistent surface, ready to receive a decorative or protective coating. Nucem Skim Coat is a waterproof material which allows the structure to breathe. Independently tested by Taywood Engineering Limited. Nucem Skim coat is designed to comply with the requirements of EN 1504 Part 2.

Advantages

- Provides an efficient anti-carbonation barrier
- Unifies appearance of repaired elevations
- Easy to apply by brush or float
- Good resistance to water, frost & salt
- Pack contains all constituents including gauging liquid
- Conforms with the requirements of EN 1504-2

Applications

- Concrete structures, including carparks & subways
- Waterproofing internal/external concrete, brick & blockwork
- Damp-proofing of basements & cellars
- Concrete with insufficient cover to steel reinforcement

Technical Information

Type	Cementitious/Acrylic Polymer
Density	2.0 kg per litre
Yield	6.24 Litres
Coverage per 12.5 kg pack	6.2 m ² @ 1 mm 4.1 m ² @ 1.5 mm 3.1 m ² @ 2 mm
Pot life	45 minutes
Minimum application temperature	5°C

CE	
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EN 1504-2 Surface protection system for concrete Coating	
Permeability to CO ₂	s _D >50 m
Permeability to water vapour	Class 1
Capillary absorption & permeability to water	<0.1 kg/m ² .h ^{0.5}
Adhesion	≥0.8 N/mm ²
Dangerous substances	Complies with 5.4

Surface Preparation

All surfaces must be sound, clean and free of contaminants and laitance which should be removed by blast cleaning. Surfaces should be thoroughly wet down with clean water.

Mixing

Nucem Skim Coat should be prepared by adding the entire powder component to the liquid component in a suitable container and mixing with a rotary drill and paddle to achieve a smooth, lump free paste. Do not over mix. Usable life approximately 45 minutes.



Technical properties of NuceM Skim Coat

Properties	Standard	Performance Requirement	Declared Value
Coverage			4.16 m ² @1.5 mm
Max. aggregate size			0.3 mm
Working life			45 minutes
Drying time			1-6 hours
Temperature for application			5°C to 30°C
Adhesion strength	EN 1542	≥0.8 MPa	>0.8 MPa
Permeability to CO ₂	EN 1062-6	S _D >50 m	>50m
Diffusion resistance to CO ₂			4.2 x10 ⁻⁶ cm ² /s ⁻¹
Capillary absorption & permeability to water	EN 1062-3	<0.1 kg/m ² .h ^{0.5}	<0.1 kg/m ² .h ^{0.5}
Thunder shower cycling	EN 13687-2	≥0.8 MPa	≥0.8 MPa
Artificial weathering	EN 1062-11		No visual defects
3.0mm Dry Film Thickness Properties			
R Value			107 meters
Sc Value			206 mm
Water Vapour Diffusion S _D	EN ISO 7783-1	S _D <5m (Class 1)	<5 m Permeable to water va-

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

Tolerances are those described in appropriate performance standards.

All testing was conducted at 20°C under laboratory conditions, unless otherwise stated.

1 N/mm² = 1 MPa

1 kN/mm² = 1 GPa

Application Instructions

Apply material directly onto prepared damp surfaces by brush or float in either one or two coats.

The maximum thickness per coat is 2mm.

As the material sets it can be trowelled to a smooth surface finish using a steel float or alternatively finished with a sponge to achieve a textured surface.

May be applied using appropriate specialist spray equipment.

Cleaning

Mixing equipment and tools should be cleaned regularly through the day to avoid product build up, using clean cold water.

Curing

Curing should be employed immediately after finishing, as work progresses. Nucem Skimcoat should be protected from rapid drying out, using normal methods of curing for example taped down polythene sheeting, in line with good concreting practise. A UV degradable resin based curing membrane such as *Chemcure R90* may be used, but this must be avoided if the surface is going to receive subsequent treatments. Protect from precipitation during the curing period

Overcoating

Nucem Skim Coat provides an excellent base for application of further protective or decorative coatings. Consult Nufins technical department as to minimum over-coating time.

Packaging

Nucem Skim Coat is available in 12.5kg packs (yield 6.24 litres)

Storage

The shelf life is 6 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost.

Limitations

Surfaces may become stained if excess water is used to finish the surface.

Nucem Skimcoat should not be installed in temperatures below 5°C unless measures have been taken to protect materials in storage and prior to use. It is recommended that materials are stored above 10°C. In addition, materials should not be installed in temperatures of 3°C or below on a falling scale, without frost protection measures.

Protect installed material from adverse weather and frost. If it is necessary, the work area should be tented and heated during and after placement. Please contact Nufins technical department for further advice.

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.

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.

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.