



# Nucem Skim Coat

## Flexible Cementitious Levelling Coat



# Nufins

### Description

A polymer modified cementitious levelling coat with built in flexibility and waterproofing characteristics. Application should be carried out by either brush or trowel. Ideal for the treatment of repaired concrete surfaces to protect the unrepaired areas against further attack by chlorides or carbonation and to provide an overall uniform appearance or a consistent surface to receive a decorative 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 conform with the requirements of EN 1504 Part 2.

### Advantages


- Provides an efficient barrier against ingress of Carbon dioxide.
- Easy to apply by brush or float.
- Good resistance to water, frost and salt.
- Pack contains everything including gauging liquid.
- Conforms with the requirements of EN1504-2.

### Applications

- Waterproofing of internal and external concrete, brickwork and blockwork.
- Protection of concrete with insufficient cover to steel reinforcement.
- Unification of repaired concrete structures.
- Damp-proofing of basements and cellars.

### Technical Information

Type	Cementitious/Acrylic Polymer
Density	2.0 kg/Litre
Yield	6.24 Litres
Coverage	12.5kg pack will cover 4.16m <sup>2</sup> @ 1.5mm thickness
Pot Life	45 minutes
Minimum Application Temperature	5°C
Permeability to CO <sub>2</sub>	>50m
CO <sub>2</sub> Diffusion	4.2 x 10 <sup>-6</sup> cm <sup>2</sup> /s <sup>-1</sup>
R Value @ 3mm	107metres
Sc Value@ 3mm	206mm of concrete
Water Vapour Diffusion	<5m Permeable to water vapour
Independent testing shows continued excellent Resistance after 2000 hours accelerated weathering	

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EN 1504-2 Surface protection system for concrete Coating	
Permeability to CO <sub>2</sub>	s <sub>D</sub> >50m
Permeability to Water Vapour	Class 1
Capillary Absorption & Permeability to Water	<0.1 kg/m <sup>2</sup> /H <sup>0.5</sup>
Adhesion	≥0.8 N/mm <sup>2</sup>
Dangerous substances	Complies with 5.4

### Surface Preparation

All surfaces must be sound and clean and free of laitance which should be removed by blast cleaning. Surfaces to be treated should be thoroughly dampened with water.

### Mixing

Nucem Skim Coat should be prepared by adding the powdered components to the liquid component in a plastic bucket and mixing with a rotary drill and paddle to achieve a smooth, lump free paste. Do not overmix. Usable life approximately 45 minutes.

### Application Instructions

Apply the material to the surface thoroughly dampened by water using either a brush or float in either one or two coats. Maximum thickness per coat is 2mm. As the material sets it can be trowelled to a smooth surface using a steel float or alternatively finished with a sponge to give a textured finish.

All equipment should be washed immediately after use with cold water.

### Technical properties of Nucem Skim Coat.

Properties	Standard	Performance Requirement	Declared Value
Coverage			4.16 m <sup>2</sup> @1.5mm
Working Life			45 Minutes
Drying Time			1-6 Hours
Minimum Application Temperature			5°C
Adhesion Strength	EN1542	≥0.8 MPa	>0.8 MPa
Permeability to CO <sub>2</sub>	EN1062-6	S <sub>D</sub> >50m	>50m
Diffusion Resistance to CO <sub>2</sub>			4.2 x10 <sup>-6</sup> cm <sup>2</sup> /s <sup>-1</sup>
Capillary Absorption & Permeability to Water	EN1062-3	<0.1 kg/m <sup>2</sup> /H <sup>0.5</sup>	<0.1 kg/m <sup>2</sup> /H <sup>0.5</sup>
Thunder Shower Cycling	EN13687-2	≥0.8 MPa	≥0.8 MPa
Artificial Weathering	EN1062-11		No visual defects
0.3mm Dry Film Thickness Properties			
R Value			107 meters
Sc Value			206 mm
Water Vapour Diffusion S <sub>D</sub>	EN ISO 7783-1	S <sub>D</sub> <5m (Class 1)	<5m Permeable to water vapour

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

Tolerances are those described in appropriate performance standards.

1 N/mm<sup>2</sup> = 1 MPa

1 kN/mm<sup>2</sup> = 1 GPa



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### Overcoating

Nucem Skim Coat provides an excellent base for the application of surface coatings, either protective or decorative. Consult Nufins Technical department as to minimum over-coating time.

### Packaging

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

### Storage

Nucem Skim Coat has a shelf life of 6 months, when stored unopened at moderate temperatures. Protect from frost.

### Health & Safety

Nucem Skim Coat does not present any undue hazard and is non-toxic, however, as it is alkaline, gloves should be worn and any material should be washed from skin and eyes before it dries with clean water.

### Limitations

Application should not be carried out when the ambient temperature is below 5°C. Surfaces may become stained white if excess water is used to finish the surface or if water, i.e. rain or condensation, is allowed to form on the surface before the film has hardened.

### 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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