

## Proflex A

### Acrylic Waterproofing Coating

#### Description

A high build water borne elastomeric waterproof coating designed to impart a decorative semi-matt protective film to concrete. Protects concrete from the ingress of rain water, other water borne pollutants and minimises the possibility of carbonation. Proflex A is also suitable for the protection and decoration of asbestos cement roofs, brick and block work, slate felt and asphalt. Available in a range of attractive colours. Proflex A has been designed to comply with the requirements of EN1504 Part 2.

#### Advantages

- Excellent adhesion to most surfaces
- Prevents ingress of rain water whilst allowing the structure to breathe
- Inbuilt flexibility allowing for normal expansion and contraction movement
- Low carbon dioxide permeability to supplement inadequate reinforcement cover
- High UV and atmospheric pollutant resistance
- Independently tested by Taywood Engineering

#### Technical Information

Polymer type	Acrylic
Coverage	2-5m <sup>2</sup> per litre
Dry Film Thickness (Per coat)	265µm @ 2m <sup>2</sup> /Litre 150µm @ 3.5m <sup>2</sup> /Litre
Drying Time	1-6 Hours
S.G.	1.37
Total Solids	65%
Minimum Application Temperature	5°C
Film Tensile Strength	0.7 MPa
Film Elongation	370%
Crack Bridging Properties	Static Cracks ≤2mm
Flash point	Non-flammable

NB. Proflex A will be affected by surface profile and porosity.



<b>CE</b>	
Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear, NE38 8QA  13	
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 MPa
Dangerous substances	Complies with 5.4

#### Surface Preparation

Substrate must be clean and sound, and free from all grease, oil, paint, plaster and laitance must be removed. Water blast cleaning is the preferred method. Moss or lichen should be treated with Nufins Fungicidal Wash. Oil and grease should be removed using Desolve.

## Technical properties of Proflex A.

Properties	Standard	Performance Requirement	Declared Value
Appearance			Pigmented Emulsion
S.G.	EN ISO 2811-1		1.37
pH			8.5
Non-volatile matter	EN ISO 3251		60-70%
Viscosity	EN ISO 3219		17000Cps
Drying time	EN ISO 1517		1-6 Hours
Application temperatures			5°C to 35°C
Coverage			2-5m <sup>2</sup> per litre
Dry film thickness (Per coat)			265µm @ 2m <sup>2</sup> /Litre 150µm @ 3.5m <sup>2</sup> /Litre 106µm @ 5m <sup>2</sup> /Litre
Film tensile strength	BS 2782-3		0.7 MPa
Film elongation	BS 2782-3		370%
Crack Bridging Properties			Static Cracks ≤2mm
Flash point			Non-flammable
Permeability to CO <sub>2</sub>	EN1062-6	CO <sub>2</sub> S <sub>D</sub> >50m	>50m
Diffusion resistance to CO <sub>2</sub> (Dry film thickness of 268µm)			3.78 x10 <sup>-7</sup> cm <sup>2</sup> /s <sup>-1</sup>
R. Value			106 metres
Sc. Value			260mm
Water vapour diffusion S <sub>D</sub>		S <sub>D</sub> <5m	S <sub>D</sub> = 0.7m (Class 1)
Water vapour transmission rate			0.059 kg/m <sup>2</sup> /24 Hours
Capillary absorption & permeability to water	EN 1062-3	<0.1 kg/m <sup>2</sup> /H <sup>0.5</sup>	<0.1 kg/m <sup>2</sup> /H <sup>0.5</sup>
Adhesion	EN 1542	≥0.8 MPa	≥0.8 MPa
Thunder shower cycling	EN 13678-2	≥0.8 MPa	≥0.8 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 standards.

All tests were conducted under laboratory conditions.

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

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

## Priming

In the majority of cases it is advisable to apply one coat of *Stabilising Primer W.B.* onto the dry prepared surface. Do not apply the Proflex A until the primer is dry. Clean all equipment used for application of *Stabilising Primer W.B.* with water.

## Stabilising Primer W.B.

Resin	Acrylic emulsion
Appearance	Milky white liquid
S.G.	1.0
Solids content	24%
Coverage	5 - 8m <sup>2</sup> per litre
Bond Strength	>2.0 MPa

## Application Instructions

Proflex A may be applied by brush, roller or airless or air assisted airless spray at the recommended coverage rate. Do not over-work. One coat is normally sufficient but if applying two coats allow the first coat to fully dry. All equipment should be cleaned immediately after use with clean water.

## Application to Roofs

Prepare the surface as previously described. Suspect or damaged areas such as cracks in old asphalt, flashing, covings, splits, fish mouting, around bolt heads, vent pipes and up stands should be treated first with a thick heavy brush coat prior to the overall treatment. For added protection reinforcement tape can be incorporated into the initial application. For application to tiles or slates, Proflex A should be brushed against the lay of the tiles. As soon as the first coat is dry apply the second coat by brushing at right-angles to the first.

## Packaging

Proflex A and Stabilising Primer W.B. are available in 5 litre units.

## Storage

Shelf life of Proflex A and Stabilising Primer W.B. is 12 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost.

## 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 apply at temperatures below 5°C or in damp conditions or when rain is expected. Proflex A is not suitable for application on to areas where free standing water is likely to occur.

## 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.