



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

## Proflex A Data Sheet

### Specification notes

Product: **Proflex A**

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# Proflex A



# Nufins

## Acrylic Waterproof 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 (2 Coats)	646µm @ 2m <sup>2</sup> /Litre 258µm @ 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.

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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 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 is preferred method of preparation and 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*.

### 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.

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

### 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 to 5 m <sup>2</sup> per litre
Dry film thickness (2 coats)			646µm @ 2m <sup>2</sup> /Litre 258µm @ 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>		CO <sub>2</sub> s <sub>D</sub> >50m	>50m
Diffusion resistance to CO <sub>2</sub>			3.78 x10 <sup>-7</sup> cm <sup>2</sup> /s <sup>-1</sup>
(Dry film thickness of 268µm) R. Value Sc. Value			106 metres 26mm
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



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### Application Instructions

Proflex A may be applied by brush or roller at the recommended coverage rate. Do not overwork. 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 mouthing, around bolt heads, vent pipes and upstands 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.

When applying a two coat system it is advisable to use the light grey membrane as the first coat to assist in even application.

### 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 6 months when stored unopened at room temperature, protected from frost. Keep out of the reach of children.

### Health & Safety

Proflex A is non-flammable and presents no hazards. Splashes should be washed from the skin with soap and water before it dries.

Stabilising Primer W.B. does not present any undue hazard, however normal standards of hygiene should be observed and any material should be washed from the skin with water before it dries.

### 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.

### 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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