

SIGNATURE^S

LIQUID WATERPROOFING

Product Data Sheet

PU LIQUID FIBRE

Fibre-reinforced, single component polyurethane detailing membrane



DESCRIPTION

SIGNature PU Liquid Fibre is a thixotropic, fibre reinforced, single component, polyurethane (PU) liquid membrane. Owing to its unique formulation it cures rapidly to form a bubble-free, thick layer with excellent mechanical properties. Reinforcing fibres within the product enable the installer to form weathering details without the need to cut and shape sheet reinforcing material – SIGNature PU Liquid Fibre is less prone to sagging when applied to vertical surfaces.

Easily applied by brush or roller.

TYPICAL APPLICATIONS

- Reinforcement of internal and external corner details
- Detailing around pipes, upstands and flashings
- Application into concrete gutters
- Ideal for vertical up stand work as less prone to sagging
- Deck/wall interface reinforcement

FEATURES AND BENEFITS

- No additional reinforcement necessary
- Fast curing – skins over in 2 to 3 hours
- Thixotropic – less prone to sagging and slump
- Bubble and defect-free membrane
- Excellent weather and UV resistance
- Excellent thermal resistance – product never turns soft
(recommended service temperatures 80°C, maximum shock temperature 200°C)
- Remains elastic down to -40°C
- Excellent mechanical properties, high tensile and good tear strength, high abrasion resistance
- Good chemical resistance

COVERAGE RATES

As a stand-alone coating: minimum coverage rate is 1.8 to 2.0kg/m².

As a joint reinforcing or detailing membrane with the SIGnature PU-10 and PU-20 Liquid Coating Systems, the minimum coverage rate 1.5kg/m².

An additional 0.5kgm² of the relevant PU Liquid Coating will need to be applied as a topcoat to complete the system within 48 hours.

PACKAGING AND SHELF LIFE

Supplied in 5kg and 15kg metal drums. Can be kept for a minimum of 12 months in the original unopened drums in dry conditions at temperatures between 5°C to 25°C.

Once opened use as soon as possible.

APPLICATION

It is essential that the intended substrate is thoroughly cleaned with a high pressure washer, on smaller areas a stiff broom and soapy water will suffice. Remove all oil, grease and wax contaminants, cement laitance and loose particles. Make good all cracks and blisters, fill surface irregularities with a suitable product.

Allow to fully dry.

Apply SIGnature PU Same Day or Next Day Primer at a sufficient coverage rate to seal the surface. Primer coverage rates will vary dependent on surface porosity.

Allow primer coat to fully dry.

CLEANING

Clean tools first with paper towels and then using a suitable solvent. Rollers and paint brushes will not be re-useable. Dispose of these items responsibly.

PRECAUTIONS

Contains volatile, flammable solvents.

This product contains volatile, flammable solvents. Always apply in well-ventilated, non-smoking areas away from any source of ignition. In enclosed spaces always use ventilators and carbon active masks.

A Safety Data Sheet is available on request.

TECHNICAL SPECIFICATION

In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (BROOKFIELD)	cP	ASTM D2196 - 86, @ 25°C	5000 - 7000
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C	1.4 - 1.5
Flash point	°C	ASTM D93, closed cup	42
Tack free time, @ 77°F (25°C) & 55% RH	hours	-	2 - 3
Recoat time	hours	-	6 - 48

The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Max. temperature short time (shock)	°C	-	200
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	80
QUV Accelerated Weathering Test (4hr UV, @ 60°C (UVB - Lamps) & 4hr COND @ 50°C)	-	ASTM G53	Passed (2000 hours)



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