

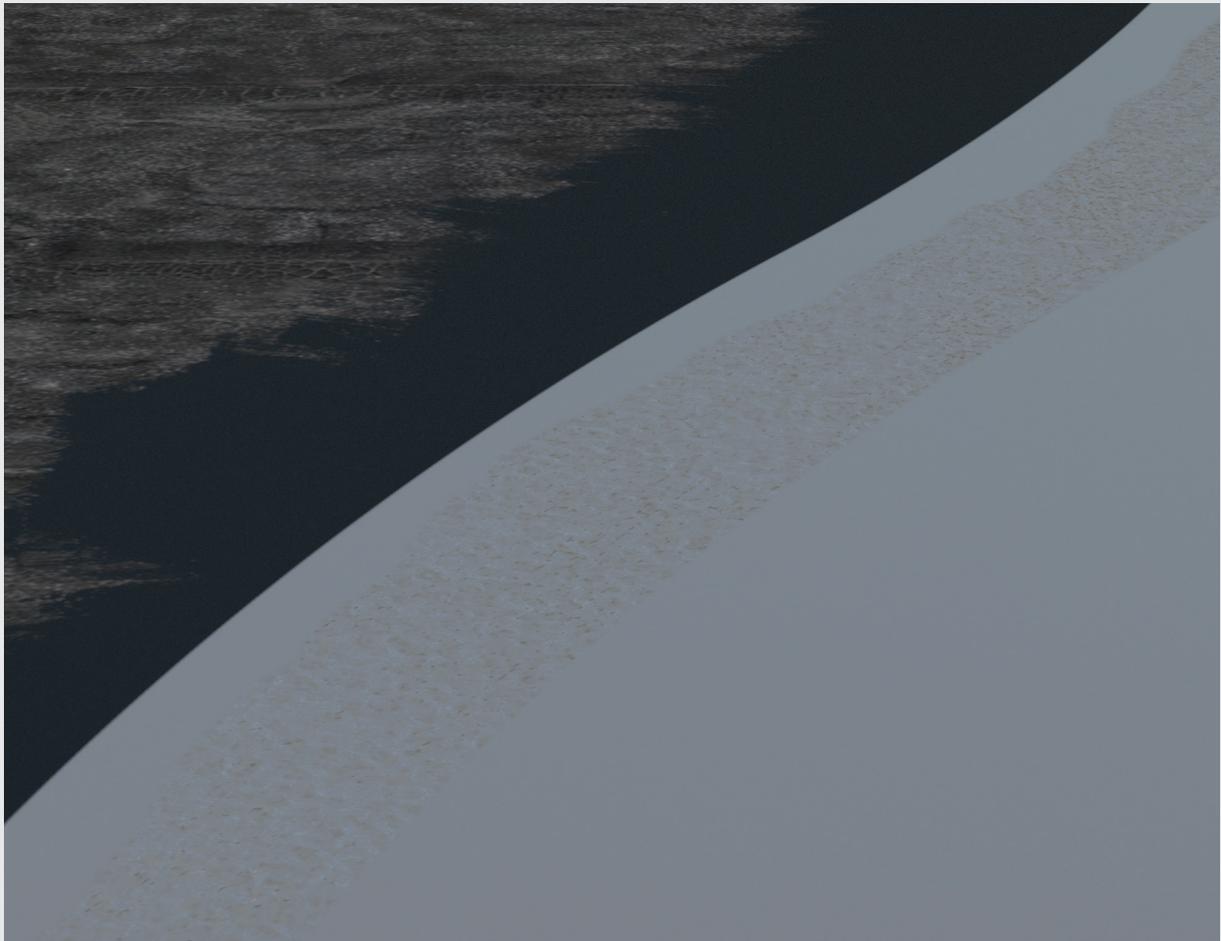
SIGNATURE^S

LIQUID WATERPROOFING

Product Data Sheet

PU-10 LIQUID COATING

Polyurethane, liquid membrane for waterproofing and protection.



DESCRIPTION

PU-10 Liquid Coating is a single component rapid curing polyurethane liquid membrane that is easy to apply over existing roofing systems to create a durable and seamless waterproof layer.

Its formulation allows a, fast curing, bubble free, single coat application, seamless, roofing system to be created. Due to its excellent tensile strength there is usually no need to incorporate a reinforcing fabric, making application a breeze. Easily applied by brush, roller or squeegee. Minimum coverage rate is 1.5kg per m².

TYPICAL APPLICATIONS

Waterproofing and protection of:

- ⑤ Asphalt and bitumen roofs
- ⑤ EPDM membranes
- ⑤ GRP roofing systems
- ⑤ OSB3 T&G structural roof decks
- ⑤ Metal and cement fibre roof sheets
- ⑤ Gypsum and cement boards
- ⑤ Concrete roofs
- ⑤ PVC, FPO, TPO single ply roofs

LIMITATIONS OF USE

All substrates must be sound, clean and any bubbles and blisters must be made good before work commences. Cannot be used in areas where the system may come into contact with chemically treated water such as swimming pools. Not safe for fish ponds.

The appropriate SIGNature PU Primer must be applied to all surfaces prior to the application of the waterproofing membrane.

FEATURES AND BENEFITS

- ⑤ Fast curing
- ⑤ Bubble free smooth finish
- ⑤ Excellent weather and UV resistance
- ⑤ Will remain elastic even down to -40°C
- ⑤ Will not soften in high temperatures
- ⑤ High tensile and tear strength, excellent abrasion resistance

COLOURS

Light Grey.

CLASSIFICATION ACCORDING TO EOTA

Certified quality, environmental and occupational health and safety management systems ISO 9001, ISO 14001 and OHSAS 18001.

APPLICATION PROCEDURE

Surface preparation and priming

Clean the surface to be treated with a high pressure washer or a stiff broom and soapy water to remove all oil, grease, 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 the appropriate SIGnature PU 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. See appropriate SIGnature PU Primer data sheets for coverage rates, drying times etc.

Any gaps in the substrate over 2mm wide or movement joints must first be filled with SIGnature PU Joint Sealer prior to the application of the SIGnature Liquid Fibre.

If the membrane is to be installed over timber decks. OSB3 18mm must be used. The OSB must be primed before any further applications. Once the PU Primer has fully cured the joints in the boards must be taped using SIGnature PU Reinforcing Tape(75mm) ensuring that the tape is placed evenly across the joints and fully adhered.

It is recommended to create a fillet or cant strip using SIGnature PU Joint Sealer at the base of all up stands.

Application of membrane

Use a low speed (300rpm) mixer. Mix thoroughly taking care not to introduce air into the liquid, creating bubbles. It is recommended that all detail and perimeter works are carried out before the main field areas. On vertical surfaces, internal/external corner details and outlets/Pipe collars SIGnature PU Liquid Fibre should be used at approx. 1kg per m² as this product is thixotropic so will not sag. SIGnature PU-10 must be applied over this detail at approx. 1kg m² subsequently.

Apply the material with roller, brush or squeegee in one or two coats ensuring that you achieve a bubble free and even application.

Do not exceed 48 hours between coats as this will affect inter-coat adhesion.

Surfaces that have exceeded 48 hours between coats will need to be primed with a light coat of SIGnature PU Same Day or Next Day Primer approximately 0.1ltr per m² will be sufficient to act as a reactivation primer to ensure a proper bond to the previous coat.

COVERAGE RATES

Minimum total consumption must be at least 1.5kg per m².

A 15kg drum will cover approximately 10m².

Suggestion: If the area to be treated is substantial, it is good practice to grid out the roof to ensure that the recommended coverage rates per m² are achieved.

PRECAUTIONS

Contains Volatile, Flammable Solvents. Always apply in well ventilated areas.

No smoking or naked flames are permitted until the membrane or primer has fully cured. Please be aware that solvent fumes are heavier than air. If the product is to be used in enclosed spaces then ventilators and active carbon filter masks must be worn.

PACKAGING AND SHELF LIFE

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

TECHNICAL SPECIFICATION

In liquid form (before application), 90% dry matter in Xylo:

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (BROOKFIELD)	cP	ASTM D2196 - 86, @ 25°C	3500 - 5500
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C	1.3 - 1.4
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	70
Tensile strength at break, @ 23°C	kg/cm ² (N/mm ²)	ASTM D412 / EN - ISO - 527 - 3	65 (6,5)
Percent elongation @ 23°C	%	ASTM D412 / EN - ISO - 527 - 3	> 400
Water vapour transmission	gr/m ² .hr	ASTM E96 (Water Method)	0.8
Tensile set (after 300% elongation)	%	ASTM D412	< 3%
QUV Accelerated Weathering Test (4hr UV, @ 60°C (UVB - Lamps) & 4hr COND @ 50°C)	-	ASTM G53	Passed (2000 hours)



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