

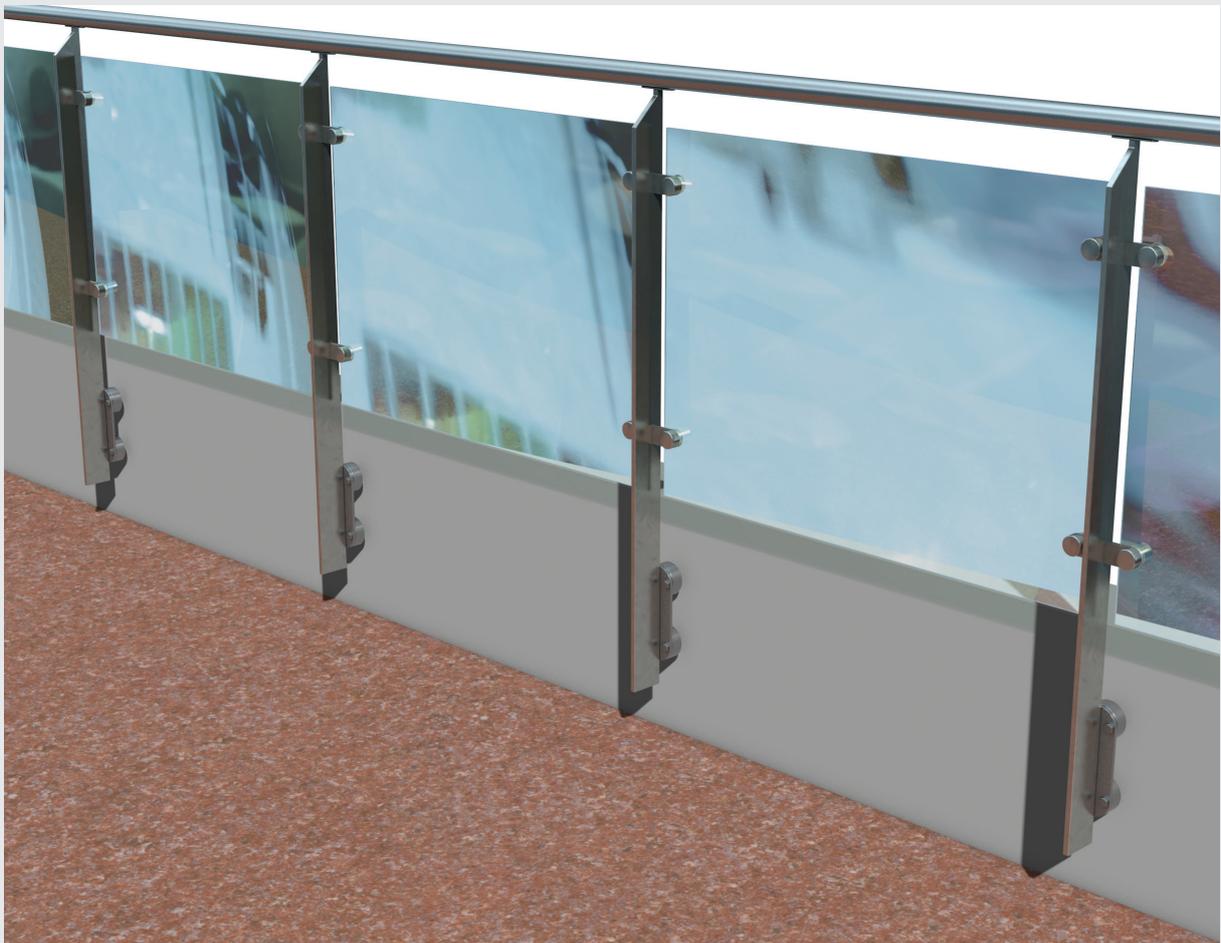
# SIGNATURE<sup>S</sup>

LIQUID WATERPROOFING

Product Data Sheet

## PU TERRACE

**Polyurethane surface protection for balconies and walkways**



## DESCRIPTION

A single component, transparent, rapid curing polyurethane coating intended for application as a traffic coating over SIGnature PU-10 and PU-20 Liquid Coatings and other surfaces.

Easily applied by brush, roller or airless sprayer. Minimum coverage rate is 0.1ltr m<sup>2</sup> per coat. Drying time is 6 to 8 hours.

## TYPICAL APPLICATIONS

Creating a hard wearing surface over:

- ⑤ SIGnature PU-10 and PU-20 Liquid Coatings for balconies and walkways
- ⑤ Asphalt or bitumen roofs\*
- ⑤ Concrete surfaces, even garage floors\*
- ⑤ GRP rooflights\*
- ⑤ GRC tiles\*
- ⑤ Concrete pavers\*

\* SIGnature Same Day or Next Day Primer required

## LIMITATIONS OF USE

Not recommended for unsound substrates. If used over SIGnature PU-10 only apply after minimum 72 hours, to allow full polymerisation. Must not be applied in thick coats.

## FEATURES AND BENEFITS

- ⑤ Strong and uniform adhesion on almost any surface
- ⑤ Highly hydrophobic
- ⑤ Highly flexible even down to -40°C
- ⑤ Excellent heat and UV resistance, will not peel, yellow or soften up to +80°C
- ⑤ Outstanding resistance to chemicals and mechanical stresses
- ⑤ Can be pigmented

## 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.

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. See appropriate SIGnature PU Primer data sheets for coverage rates, drying times etc.

### Application of PU Terrace

Stir product thoroughly by low speed mixer or manually ensuring that air is not mixed into the liquid creating bubbles. Surfaces must be completely dry before product application.

### As a non-slip walkway

Apply a light base coat by brush or roller to the prepared substrate (approximately 0.1ltr per m<sup>2</sup>) whilst still wet broadcast Quartz Aggregate at the desired coverage rate and allow to dry.

Brush off excess Quartz Aggregate and apply a further light saturation coat to seal. Alternatively Quartz Aggregate can be mixed into the container of SIGnature PU-10 Liquid Coating and applied directly to the prepared surface by brush or roller.

If applying over SIGnature PU-10 Liquid Coating please allow a minimum of 72 hours to allow full polymerisation has occurred before application. No primer is required for this application.

Colour pastes are available in a range of colours if required.

## COVERAGE RATES

Subject to substrate porosity and application: 0.1 to 0.5ltr per m<sup>2</sup> (coverage rate is approximate and is dependent on quantity of Quartz used).

## 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 4 litre tins. 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), 50% dry matter in Xylol:**

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (BROOKFIELD)	cP	ASTM D2196 - 86, @ 25°C	200 - 300
Specific weight	gr/cm <sup>3</sup>	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C	1.0
Tack free time, @ 77°F (25°C) & 55% RH	hours	-	6 - 8
Recoat time	hours	-	24

**The cured membrane:**

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Max. temperature short time (shock)	°C	-	200
Hardness	Shore D	ASTM D2240 / DIN 53505 / ISO R868	40
Tensile strength at break, @ 23°C	kg/cm <sup>2</sup> (N/mm <sup>2</sup> )	ASTM D412 / EN - ISO - 527 - 3	40
Percent elongation @ 23°C	%	ASTM D412 / EN - ISO - 527 - 3	> 300
Water vapour transmission	gr/m <sup>2</sup> .hr	ASTM E96 (Water Method)	0.8
Thermal resistance (100 days @ 80°C)	-	EOTA TR011	passed
QUV Accelerated Weathering Test (4hr UV, @ 60°C (UVB - Lamps) & 4hr COND @ 50°C)	-	ASTM G53	Passed (2000 hours)
Hydrolysis (Potassium Hypochlorite 5%, 10 days)	-	-	No significant elastomeric property change
Hydrolysis (Sodium Hypochlorite 5%, 10 days)	-	-	No significant elastomeric property change
Water absorption	-	-	< 1.4%



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