



Sealex Industries

Waterproofing Systems, Sealers & Sealants

PU901

2 part Polyurethane Car Park Membrane

Data sheet page 1 / 2

Description

Sealex PU901 is tough, elastic, trafficable UV resistant polyurethane waterproofing membrane system. It is a premium grade, low VOC elastomer using the latest technology to provide long life, protective barriers to prestige construction projects.

Uses

Sealex PU901 system is suitable for exposed roofing, decks, podiums, car parks, ramps, compactor room floors, plant rooms and wash rooms as well as for sport stadium service-ways, plats and vomitories. Sealex PU901 membrane may be used alone as a protective impact resistant, resilient internal flooring to laboratories, sports centres or gymnasium. The Sealex PU901 system can be applied to most clean, dry, stable surface including concrete, precast, fibre cement sheet, CFC, precast, concrete masonry, brick, render, metals and plastics

System

Sealex PU901 Membrane

A tough, resilient polyurethane elastomer base layer rubber barrier giving long life waterproof protection.

Sealex PU901 Topcoat

An extremely abrasion resistant, flexible UV colour stable top coating for Sealex PU901 membrane. It is capable of moving with the substrate and suited for most areas of exposed pedestrian or vehicular traffic.

Features

- **Green Star** compliant – low VOC
- Problem free installation process
- Long life, permanently flexible
- Total adhesion - no water tracking
- Fully monolithic structure, resists ponded water
- Resistant to puncture and damage
- UV resistant and non-yellowing system
- Amazing temperature tolerance -40°C to 120°C
- Hard wearing, non-slip surface

Combine with other Sealex and WR Grace membranes to specify a fully waterproof envelope.

Preparation

- Surfaces must be sound, smooth, dry and free from dust, loose matter, curing agents, oil, grease or other contaminants.
- Use Sealex modified mortar to patch defects and allow to cure fully.
- Fill all joints, cracks, gaps and form angle fillets to internal corners or penetrations with Sealex PU sealant.
- Concrete should be cured for 28 days and have max. 5% moisture content.

NOTE

- Resurfacing of previously painted surfaces will require total removal of existing coatings to expose bare, clean substrate. Machine grinding is the preferred method
- Mix all individual PU901 components with a clean dry stirrer before use.
- Preferred application temperature range is between 5°C and 30°C.

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Data sheet page 2 / 2

Application

Priming

Apply Sealex PU901 Clear Primer may be used to inhibit outgassing. For damp or 'green' concrete use Sealex SE30. Coverage rate of primer is approx 5/litre.

Generally

Use of fabric reinforcement is not usually required, however movement joints and areas where cyclic movement is expected, should be first sealed with Sealex Reinforcing Strip embedded in a 1mm thick layer of the Sealex membrane.

Mixing

Measure each individual Sealex PU901 Part A and Part B component accurately by weight into a clean container and mix thoroughly with an electric stirrer (300 rpm). Preferred material mixing and application condition is 10°C - 30°C and RH <85%.

Application

Sealex PU901 Membrane

Apply first coat by notched trowel, roller, brush or plural component spray to 1.25-1.5mm DFT (approx 2kg/m²). Allow to dry 12 hours (but not longer than 2 days) then apply second coat 0.3mm (0.4kg/m²). While still wet, broadcast with non-slip grit. Allow to dry a minimum 12 hours before foot traffic. Remove loose grit.

Sealex PU901 Topcoat

Apply Sealex PU901 Topcoat by roller or air less spray system at 0.2-0.3kg/m². Allow 24 hours curing before foot traffic. Total dry film thickness of system to be 1.5 – 2.0mm.

Surfacing

The finished Sealex PU901 membrane may be subjected to foot traffic 8 hours after installation but 5 days curing should be allowed before vehicles are driven over the surface. If required for functional or aesthetic reasons, areas of Sealex PU901 membrane may be covered with optional surfacing systems, after full curing.

- Tiles Ceramic tiles may be laid on a mortar bed or otherwise fixed directly with fully guaranteed Sealex Super adhesive.
- Landscaping Use Sealex Protectoboard, Protectodrain or Rapid Drain, followed by landscaping.
- Other Rigid Surfaces Use a 0.2 mm PE slip-sheet under toppings. Paving slabs on Sealex Multi-Pads, bedding sand or mortar bed. Sealex polymer modified render.

Packaging

Sealex PU901 Clear Primer 18 kg pail

Sealex PU901 Membrane 36 kg set

Sealex PU901 Topcoat 20 kg set

Shelf Life

Sealed pails of Sealex products have a shelf life of approx. 6 months, but once opened may thicken and become solid within a few days.

Clean-up

Remove uncured Sealex products with Sealex GP Solvent.

Exercise care when using solvents. Review all MSDS before use.

Property	PU901 Membrane	PU901 Topcoat
Appearance	Coloured	Coloured
S.G.	1.2-1.3 g/ml	1.1-1.2g/ml
Elongation	>400%	>300%
Solids % vol	>96	>45
Tensile Strength	>10 N/mm ²	n/a
Hardness	>80 Shore A°	n/a
Tear Resistance		
Die C	160 pli	n/a
Taber Abrasion		
Test (D1044)	<13mg	<13mg
Chemical Resistance	Oil, Petrol, Diesel, Acids and Alkalis	Oil, Petrol, Diesel Acids and Alkalis
Water Absorption	<1.6%	
Dialectic Strength	320 (Volts/MIL)	
Flammability	Self-extinguishing	UL Class A
WVTR	0.012	
Mix Ratio (w/w)	1 : 1	4.7 : 1
Pot Life (20°C)	30 minutes	30 minutes

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