



Sealex Industries

Waterproofing Systems, Sealers & Sealants

PU101 System

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Description

An advanced, high performance, one-part, fast curing, high solids, UV resistant polyurethane rubber polymer membrane system designed for exterior use. Sealex PU101 System provides a highly durable waterproof membrane barrier for foot-trafficable roofs and decks. It is CSIRO certified Class III rating to AS/NZS4858.

Uses

The Sealex PU101 System is specifically designed for use as a non-slip fully exposed membrane on foot trafficable areas, including plant room floors, bunds, balconies, roof decks, hoods, podiums, sill or window flashings and exposed pathway areas. The system can be applied to most surfaces.

Features

- Low VOC system, meets **Green Star** requirements
- UV Resistant and foot trafficable
- Quick access for trades
- Waterproof - resists ponded water
- No hazardous level of toxic substances
- Compliant with AS4654 "Waterproofing membrane systems for exterior use", as a Class III membrane
- Resistant to alkalis, acids, oils, fuel and solvents
- Immediate Resistance to rain damage
- Single pack - no mixing
- Multi-purpose - high-build
- Low odour and non-stain
- Forms a one-piece membrane barrier
- Will not become brittle with age

Sealex PU101 System provides a truly durable elastomeric membrane fully laminated to the substrate. It is engineered to allow application by "flood coating", without multi-layering. Although not essential to its installation, in some situations a reinforcing fabric may be incorporated to ensure uniform minimum dry film thickness. The Sealex PU101 System may be left exposed, painted, over coated or tiled as required. See Surfacing data following.

Total Project Specification

Selection of a complete package of quality, proven Sealex waterproofing systems for the project will guarantee total satisfaction for the specifier, builder and client.

Preparation

Surfaces must be sound, smooth and free from dust, loose matter, oil or other contaminants. Concrete should be cured 28 days and render 7 days. Repair surface defects with Sealex modified mortar. Use Sealex LM PU sealant to fill joints, cracks, gaps and form angle fillets to internal corners or penetrations.

Bond Breaker

Install 12mm Sealex LM as bond breaker fully in accordance with the requirements and provisions as shown in AS4654 for AS/NZS4858 Class III membrane. Allow all detailing work to skin cure before proceeding with general membrane installation.

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Application

Priming

To inhibit pin-holes and seal dusty, porous surfaces use 1 coat of Sealex Clear Primer at 8 -10m²/kg and allow to dry. Use Sealex SE30 to seal any damp or "green" concrete. Roughen PVC or stainless steel.

Detailing

Treat all areas as required by BCA and AS4654.2 External Waterproofing (see Bond Breaker). Reinforce all joints in concrete, FC, CFC and timber sheet as well as other movement joints, penetrations, overlaps to angle flashings, etc with 100mm Sealex Reinforcing Fabric embedded between two heavy coats of Aquagard M.

Application of a Continuous Membrane

Sealex PU101 membrane is best applied in one application by squeegee. It can also be used by brush or roller in two or more coats to a minimum dry film thickness of 1.5mm. Allow to dry fully between coats.

Topcoat

Mix Sealex PU101 Topcoat A/B and apply in one or two coats by brush, roller or spray to give uniform finish with DFT 0.15mm. Grey and a limited colour range are available.

Surfacing

Sealex PU101 membrane may be subjected to foot traffic after 12 hours. Following surfacing systems may be used over fully cured Sealex PU101 without Topcoat:

- Tiles Ceramic tiles may be laid on a mortar bed or otherwise fixed directly Sealex Super adhesive.
- Decorative Finishes Use Sealex S470/472 as sealer for premium quality exterior acrylic paints or texture coatings.
- Other Rigid Surfaces Use a 0.2 mm PE slip-sheet under concrete toppings. Paving slabs on Sealex Multi-Pads, bedding sand or mortar bed. Sealex modified render or textures.
- Insulated – Thermally Use Sealex Insul-Foam insulation for guaranteed thermal insulation.
- Insulated – Acoustically Use Sealex Sound-Shield mat under tiles etc. To give required acoustic value.

Coverage

Sealex Clear Primer 8 – 10m²/kg

Sealex PU101 Membrane 2.0 kg/m²

Sealex PU101 Topcoat A/B 0.15 – 0.2 kg/m²

Packaging

Sealex Clear Primer 18 kg pails

Sealex PU101 Membrane 22 kg pails

Sealex PU101 Topcoat Part A 4 kg pails

Sealex PU101 Topcoat Part B 12 kg pails

Clean Up

Use Sealex GP Solvent or methylated spirits before curing.

Exercise care with solvents and review MSDS.

Shelf Life

Sealed pails of have a shelf life of approx. 6 months when stored in a cool dry area. Once opened contents may become solid within days.

Typical Properties

Colour	Grey
Specific Density	1.25 - 1.3
Shore Hardness (cured)	70°A
Service Temperature	-10°C to 80°C
Cure Time - ready for Flood Test, tiling, topping	8 hours
Tensile Strength (AS1145)	2 MPa
Elongation (AS1145)	600%
Moving Joint Test	Passed
Immersion (AS1145)	Passed (Water, bleach, detergent)
Peel Test (AS1526)	Concrete = 167N Glass = 53N
Permeance (ASTM E96)	5.9 mg/mm/m ² /24 hrs
UV Resistance (System)	Excellent

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