



# Sealex Industries

Waterproofing Systems, Sealers & Sealants

## PU 513 Z

1 Part Solvent Based Low voc  
Polyurethane Membrane

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### Description

A unique low VOC polyurethane liquid membrane. High performance, low odour, one-part, fast curing, high solids, polyurethane elastomer waterproof membrane. It is specially formulated for easy roller application of all permanently flexible, tough, high build, long life waterproof barriers. It is CSIRO certified Class III rating.

### Uses

Sealex PU513 Z is used for:

- Wet Areas - bathrooms, shower trays, laundries, toilets, spas
- External - balconies, roof decks, sill or window flashings, podiums, planters
- Tanking - retaining walls, landscaped areas, ponds, water features. It can be applied to most stable surfaces – block, brick, concrete, render, timber, CFC, GRC, ALC, etc.

### Features

- Low VOC, exceeds **Green Star** requirements
- Easy, fast one coat application – brush or roller
- Simple, seamless, fast cure membrane
- Excellent resistance to acid sulphate soils
- Waterproof - resists ponded water
- No hazardous level of toxic substances
- Permanently flexible - total adhesion
- Immediate Resistance to rain damage
- Single pack - no mixing – high build
- CSIRO approved to AS3740 "Waterproofing of wet areas..." by TA 213 and tested Class III to AS/NZS4858
- Compliant with AS4654 "Waterproofing membrane systems for exterior use", as a Class III membrane
- Systems for Total Project Specification
- Also available in Self-Level and Flowable grades with factory controlled viscosities

Sealex PU513 Z is a pure polyurethane elastomer. No bitumen or tar content and will not bleed or stain. Engineered to allow high build application without multilayering and/or reinforcing mat. Guaranteed when used in with Sealex Super two-part rubber based ceramic tile adhesive. Design a Total Waterproofing Envelope package with Sealex waterproofing systems.

### Preparation

Surface must be sound, smooth and free from dust or contaminants. Concrete should be cured 28 days and render 7 days. Generally use Sealex LM PU sealant to fill joints, cracks, gaps and form fillets to internal corners or penetrations.

### Bond Breaker

Install 12mm Sealex LM PU sealant as bond breaker in accordance with requirements and provisions as shown in AS3740 and AS4654 for AS/NZS4858 Class III membrane. Allow all detailing work to skin cure before proceeding with general membrane installation.

### Application

Primer  
To inhibit out-gassing on external surfaces, use Sealex Clear Primer. For internal areas use product diluted with 1 - 2 parts Sealex GP Solvent at 8 - 10m<sup>2</sup>/litre. Use Sealex SE30 to seal any damp or green concrete. Roughen PVC or stainless steel before priming with SE30. Allow primer to at least become tack free before proceeding with membrane installation.

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### Detailing

Treat all areas as required by BCA, AS3740 Wet Areas 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 coats of Sealex PU513 Z.

### Application of Continuous Membrane

Apply Sealex PU513 Z liquid membrane by brush, squeegee or roller to desired uniform thickness (generally 1.25 - 1.5mm DFT). Allow to dry fully between coats. For fully exposed, non-slip foot trafficable roof and deck applications use Sealex 101 Topcoat system.

### Surfacing

Allow Sealex PU513 Z to cure overnight before foot traffic. Protect installed membrane from damage. If the surface retains any residual tacky feel, early access may be achieved by lightly broadcasting the area with fine sand. Remove and loose materials before over-coating. The following surfacing systems may be used after the Sealex PU513 Z membrane has fully cured.

- Tiles  
Lay ceramic tiles on mortar bed or otherwise fix directly with fully guaranteed Sealex adhesives.
- Tanking  
Cover with Sealex Protectoboard, Protectodrain or Rapid Drain, followed by backfill or landscaping.
- Other Rigid Surfaces  
Use a 0.2mm thick polyethylene plastic slip-sheet under concrete toppings. Lay paving slabs supported on Sealex Multi-Pads or mortar bed.
- Decorative Finishes  
Use Sealex SE30 to seal surface, then apply any exterior quality acrylic paint or Sealex Blockflex high build waterproof membrane coating.
- Insulated - Thermally  
Use Sealex Insul-Foam closed cell insulation board to required thickness to give guaranteed R value.
- Insulated - Acoustically Use Sealex Sound-Shield sound deadening system under tiles etc., as required by BCA regulations.

### Coverage

External - Balconies, decks, retaining walls and planters

-1.25 lit (1.75kg) to 1.5 lit (2kg)/m<sup>2</sup>

Internal Wet Areas

• Floors - 1.25 lit (1.75kg) to 1.5 lit (2kg)/m<sup>2</sup>

• Walls - 2 - 3m<sup>2</sup>/ lit (0.7kg - 0.5kg/m<sup>2</sup>)

### Packaging

Sealex Clear Primer 18kg pails

Sealex PU513 Z Membrane 22kg pails

### Clean Up

Use Sealex GP Solvent or methylated spirits before curing. Exercise care when using solvent, review all MSDS before use.

### Shelf Life

Sealed pails have a 6 month shelf life, but once opened may solidify within a few days.

### Typical Properties

Composition	Polyurethane Elastomer
Specific Density	1.35 - 1.45
Service Temperature	-10°C to 80°C
Cure Time - ready for Flood Test, tiling, topping	8 hours
Tensile Strength (AS/NZS4858)	2.5 MPa
Elongation (AS/NZS4858)	850% = Class III
Moving Joint Test	Passed (CSIRO AS4858)
Immersion Durability (AS/NZS4858)	Passed (Water, bleach, detergent) = Class III
<b>Peel Test (AS1526)</b>	
Concrete	= 167N
Glass	= 53N
<b>WVTR (AS/NZS4858)</b>	2.79 g/m <sup>2</sup> /24 hrs
<b>Chemical Resistance</b>	Excellent

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