



PolySEAL



Polyurethane Re-Roofing Liquid Membrane

DESCRIPTION:

PolySEAL is a polyurethane based waterproofing material. It is a single pack material that cures with atmospheric moisture. High quality liquid applied elastomeric coating.

PROPERTIES:

- Elastomeric / Flexible
- Easy application
- Crack bridging properties
- High build
- Resistant to water and UV
- Excellent adhesion to most substrates
- Suitable for foot traffic or light vehicular traffic
- Remains flexible in sub-zero conditions

USES:

Waterproofing of roof-tops, balconies and terraces. Waterproofing under tiles in bathrooms and balconies. Suitable for flat roof applications with ponding water providing the heavy duty application option is used.



PolySEAL is an ideal solution for re-roofing and remedial repairs on existing membrane roofs. Old membrane roofs can be easily re-coated and brought back to a new standard with minimal disturbance to the existing roof or structure.

TECHNICAL DATA

Colour	Grey Can be colour-coated if other colours are needed.
Density	approx 1.4 kg/litre
Solids Content	~90%
Gloss Level	Low sheen
Recommended film thickness	total 1-2 mm dft
In service	16-24 hour @ 25 °C (foot traffic)
Service temperature	-20° / + 60°C
Shore A hardness	60 (7 day cure)
Elongation at break	600% (7 day) DIN 53504
Tensile strength	8 N/mm ² (7 day) DIN53504
VOC content	less than 5 g per litre (Volatile organic compounds)
Shelf Life	Excess of 12 months in sealed containers



Full system specifications, drawings & installation information can be viewed and downloaded from the PolySEAL page on our website:

www.sealco.co.nz

APPLICATION DETAILS

Preparation:

Ensure all surfaces are clean, dry, free from rust, oil, dirt, any and all contamination. Repair all cracks and defects with thermoset filler such as EPOXYFLEX.

Priming:

Wood:

Prime with ULTRASEAL MC or OPTISEAL.

Apply membrane within 48 hours.

Galvanised Iron:

Prime with TetraCURE P10.

Fibre cement Board:

Prime with BondSEAL primer.

Concrete:

Prime with BondSEAL primer.

Rubber membrane, new:

Clean with ETCHING SOLVENT.

Prime with BondSEAL or BondSEAL Cement slurry.

Rubber membrane, old:

Assess surface for degradation to determine if extra preparation is necessary. Repair any failed areas.

If in doubt clean with ETCHING SOLVENT.

Prime with BondSEAL primer.

Application:

Mix pails of PolySEAL first with a slow speed paddle stirrer to ensure fully incorporated.

Apply by

Roller, stiff brush, squeegee, notched trowel.

Preferred method is notched trowel.

Thinning

Not recommended but if necessary small quantities of polyurethane thinner may be used under special circumstances.

Application conditions

Do not apply below 8 ° C or if rain is expected within 4 hours.

Spreading rate

Light duty – stripe and reinforce joins.

Apply 2 coats at 1.2 Kg/ m² total DFT.

Heavy duty – stripe and reinforce all substrate.

Apply 2 coats at 1.7 Kg / m² total DFT.

Broadcast aggregate at 3 kg / m².

One coat at 0.3 Kg /m².

Touch dry

4 hour at 20° C/50% rh with good air flow.

Overcoat interval

16-24 hours.

Dry times will be extended at low temperatures and low humidity.

Full cure

7 days.

Clean up

Polyurethane Thinner.

Substrate temperature

at least 3° C above dew point temperature.

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Crack Control:

Use polyester reinforcing on all substrate joints, cracks, junctions and penetrations. High traffic areas will require complete coverage of fibre reinforcing. Substrates with potential high movement or lightweight framing will require full fibre reinforcing.

Application method

When the first coat is still wet, install reinforcing in the wet coating and ensure it is completely covered. Apply further full coats of PolySEAL over the mesh area.

Recoating:

Apply further coats of the PolySEAL membrane every 5-7 years or whenever required.

Warranty:

PolySEAL is warranted for 15 years when the full system has been used and that a recoat has been applied every 5-7 years.

Maintenance:

Inspect yearly, check for defects from substrate or any other causes for early deterioration of the membrane. Clean yearly with water and a light soap solution and broom.

TRANSPORT

Class 3 Paint Related Material UN1263

HEALTH & SAFETY: Keep skin clean - use barrier creams on hands before use.

Do not apply in enclosed areas without full respiratory protection. Use gloves and eye protection. Avoid skin contact.

Eye Contact: Flush with copious amounts of water; seek medical assistance if irritation persists

Skin Contact: Wash thoroughly with soap and warm water. Avoid use of solvent to wash skin.

Warning: - Not suitable for spraying.

Refer to MSDS for full information.

Warranty / Liability

SEALCO Waterproofing Systems Ltd provides all the enclosed information in good faith but without warrantee and is to assist your application. However the use of this product being used is beyond their control. The supplier can accept no responsibility whatsoever for any damage or failures arising from its application or use. It is totally the responsibility of the user to ensure that the product is suitable for its intended purpose.



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