

SIMSHIELD™ WATERPROOF SEALANT

EXTREMELY STRONG AND FLEXIBLE SEAMLESS MEMBRANE

Description

Simshield Waterproof Sealant is a modified elastomeric bitumen emulsion specifically formulated to be applied by brush, roller or specially designed spray equipment. Simshield Waterproof Sealant is a cold-applied single-component product designed for a wide range of protective coating applications. The product technology used in Simshield Waterproof Sealant provides a solvent-free, quick-setting coating that produces the ultimate seamless waterproof membrane with excellent strength and flexibility. Simshield Waterproof Sealant is an environmentally friendly waterproofing product that can be applied indoors and outdoors with no special protective equipment.



Key Performance Properties

- Non toxic
- VOC and solvent free
- Easy to use and repair
- Odourless and non flammable
- Excellent adhesion
- Good chemical resistance
- Extremely strong and flexible
- Water based
- Suitable for interior or exterior use
- Permanently flexible

Technical Data

PROPERTY	VALUE
Specific gravity (liquid) g/cm³	Approx. 1.0
Odour	None
VOC	Contains no solvents
Colour	Brown to black
% solids (wt)	53 - 58
Viscosity, Brookfield, sl. #5, 20 rpm	8000 - 9000
pH	10 - 12
Chemical resistance	Resistant to most inorganic solutions. Not recommended for gasoline or other petroleum products. Consult Chemical Resistance chart.
Biological resistance	Passed (>90% original value)
ASTM E 154, ASTM 0412	
Impact resistance	Passed (168)
CSB37-GO-500 23°C, in-lbs	
Water tightness after impact	Passed (no leakage)
Water tightness CGSB 37-GP-56	Zero leakage
Tensile strength	Passed (>90% original value)
Hardness, Oroumeter Type 00	85-97
Salt Fog Corrosion, Steel ASTM D412	1000 hours passing
Surface Corrosion ASTM D610	No Corrosion after 500 hours, 0.03% after 1000 hours
Adhesion to concrete ASTM C907	765 kPa
Hardness ASTM D2246	50 Type A
Puncture resistance CGSB 37-GP-56	No perforations
Water Vapour Transmissions ASTM E96	0.04

Description

- Simshield Waterproof Sealant is compliant with the following standards:
- CSIRO Technical Assessment No: 337 - Satisfying requirements of a Class III membrane as stated in AS3740:2004 'Waterproofing of Wet Areas in Residential Buildings'
- CSIRO Compliance Assessment Report No: 3877 - AS4858:2004 'Wet area membranes'
- Australian Water Quality Centre Report ID: 123416 - AS4020:2018 'Products for use in contact with drinking water'

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USES

Simshield Waterproof Sealant is primarily used as a protective coating to prevent water ingress and corrosion damage. It can be used for corrosion protection of ferrous materials and is also effective for noise and vibration reduction. Simshield Waterproof Sealant can be applied to roofs, tanks, troughs, retaining walls, planter boxes, slabs, wet areas and decks. It will stick to masonry, bricks, pavers, render, cement sheeting, concrete, steel and wood.

APPLICATION DIRECTION

Simshield Waterproof Sealant is a water based, environmentally safe alternative to conventional heat-applied or solvent based waterproofing systems. When cured it will form the ultimate seamless flexible membrane. Simshield Waterproof Sealant is a single component product that may be applied by brush, roller, poured on or spray applied using specially designed spray equipment. Simshield Waterproof Sealant cures by evaporation, so an application temperature of 15 - 40°C is recommended. It completely cures within 24 hours at 30°C and 50% relative humidity when applied at a thickness of 1mm. Simshield Waterproof Sealant should be applied to a dry surface which is free of dirt, debris, oil or grease. Application is not recommended if heavy rain is imminent, or in high humidity environments. For best results apply in thin coats and leave to dry for at least 12 hours.

Joints or cracks in the surface should be reinforced using Simshield GEO Textile. In high-pressure areas use Simshield Seam Tape. Apply Simshield QUICK DRY Spray after final coat to set product, reduce tackiness and accelerate curing. See application instructions or consult with an Simshield Waterproof Sealant representative for further details.

Simshield Waterproof Sealant can be applied between 1.2 - 4.2 L/m² for a dry film thickness of 1mm - 3mm protective membrane. Typically RTT - Waterproof Sealant dries to the touch in 15 minutes @ 30°C and is completely cured in 48 hrs. Curing time may vary depending on temperature and relative humidity.

LIMITATIONS

Simshield Waterproof Sealant is mildly alkaline. When applying this product observe appropriate safety precautions, wear gloves, eye protection and other suitable protective equipment. For further information please consult the product SDS. Simshield Waterproof Sealant should not be applied when the ambient temperature is below 15°C. The uncured membrane may be damaged if frozen. Do not apply to wet surfaces or directly before rain. Some surface base coat materials such as coal tar are unsuitable for use with Simshield Waterproof Sealant.

CAUTION

For industrial use only. Keep out of reach of children. Store in a cool dry place. Avoid storage below 5°C.

Please consult the product SDS before using Simshield Waterproof Sealant. THIS PRODUCT IS NOT SUBJECT TO CONTROLLED PRODUCTS OR DANGEROUS GOODS REGULATIONS.

PACKAGING

1, 2, 4, 10 and 15L
Made in Australia

TECHNICAL ADVICE

1300 SILICONE
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LEGAL NOTES

Simseal® has made every effort to ensure accurate information but cannot be held liable for any losses or damages arising from its use, due to uncontrollable variations in processing and workmanship. Users should verify the product's suitability through their own testing.



BROWN - BLACK