

Sealrite WSM

20 Year Product Guarantee

Exceeds AS 4654.2-2012 (External) and AS 4858:2004 (Wet Areas) | ISO 9001 and ISO 14001 Certified

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PRODUCT DESCRIPTION

Sealrite WSM is a **Class II, non-woven waterproof sheet membrane** coated with a high-tack butyl rubber adhesive on a siliconised kraft paper liner. The high-tack butyl backing forms a high-performance waterproofing layer with excellent resistance to vibration, movement and flexing. Sealrite WSM forms part of approved BuildGreen waterproofing systems for wet areas, balconies, planter boxes, rooftops and selected remedial waterproofing applications.

KEY FEATURES	APPLICATIONS
• Self-adhesive sheet membrane — no hot works required • Instant seal — no drying time required • 20-year product guarantee • Approved for internal and external applications • Excellent waterproof and vapour resistance • Outstanding flexibility and vibration resistance • Service temperature range: -30 °C to +80 °C • Can be cut to required widths on site • Solvent-free and non-toxic formulation • Manufactured to ISO 9001 and ISO 14001	• Internal wet areas and shower areas • Balconies, planter boxes and rooftops • Waterproofing joints, seals and junction details • Waterproofing walls and floors • Anti-fracture system for crack repair in concrete floors, walls and pipes • Bunding for spill prevention

COMPATIBLE SUBSTRATES

- | | |
|---|---|
| • Primed and dense concrete | • Lightweight structural flooring |
| • Preformed shower bases and balconies | • Galvanised iron, Zinalume, copper and aluminium |
| • Over and under screeds | • Timber sheeting |
| • Glazed surfaces, marble, granite and ceramics | • Existing epoxy, polished and painted surfaces |
| • Over failed water-based liquid membranes* | |

* **Other substrates — consult BuildGreen Technical Support before use.**

SYSTEM COMPATIBILITY

Sealrite WSM is designed for use as part of approved **BuildGreen, Keratrade and Kerakoll** waterproofing and tiling systems. Product compatibility must be assessed based on substrate condition, project requirements, exposure conditions and the final finish being installed.

Category	Compatible Products / Systems	Notes
Waterproofing membranes	UTM, WPM, WPM Plus, Nanodefense Eco, Aquastop Nanoflex, Aquastop Flex	Where Sealrite WSM is used with liquid-applied membranes, detailing, overlaps, junction treatment and cure times must follow the relevant TDS and project specification.
Tile adhesives	Bioflex S1, BioGel No Limits, BioGel Revolution, Keratrade tile adhesive range	Adhesive selection must be confirmed based on tile type, size, substrate, exposure conditions and relevant Australian Standards.

Category	Compatible Products / Systems	Notes
Primers / surface preparation	SMP, Active Prime Fix, Keragrip Eco, Kerashield Primer, other approved primers	Priming requirements must be determined by substrate type, surface condition, porosity and moisture condition before installation.
Grouts / finishing products	Fugabella Color, Fugalite Color, Fugarok	Grout selection must be confirmed based on service environment, joint width, chemical exposure, cleaning regime and project requirements.
Coatings / renders	Acrylic coatings, cement-based renders and other compatible coating systems	Compatibility and adhesion requirements must be confirmed before installation. Solvent-based finishes must not be applied directly over Sealrite WSM.

Important: the listed products are compatible within approved system designs only. Installation sequence, detailing method and product selection must be confirmed against the current TDS for each product and applicable project requirements.

TECHNICAL SPECIFICATIONS

Property	Result / Value	Property	Result / Value
Gauge (nominal)	0.75 mm	Service temperature	+10 °C to +35 °C
Tensile strength	2.21 MPa (AS 1145.3)	Application temperature	
Elongation at break	72% — Class II (60–299%)	Dimensional stability	No change observed (ASTM D6207)
Adhesion to steel	7.8 N/cm	Compliance	AS 4654.1:2012 Class II AS 4858:2004 Class II
Bond strength to concrete	23.45 N (ASTM C794)	Field seam strength	103.83 N/25 mm
Vapour transmission rate	0.36 g/m ² /24 hr (ASTM E96)		

TECHNICAL DATA

Test / Property	Test Method	Result	Requirement	Assessment
Elongation at Break — Control	AS 1145.3	72%	60–299% (Class II)	CLASS II
Tensile Strength — Control	AS 1145.3	2.21 MPa	State result	—
Water Immersion — Elongation (56 day)	AS 4654.1 App A	88%	≥25% of control (≥18%)	PASS
Water Immersion — Tensile Strength	AS 4654.1 App A	1.72 MPa	State result	—
Detergent Immersion — Elongation	AS 4654.1 App A	89%	≥25% of control (≥18%)	PASS
Detergent Immersion — Tensile Strength	AS 4654.1 App A	2.68 MPa	State result	—
Heat Ageing — Elongation at Break	AS 4654.1 App A	66%	≥50% of control (36%)	PASS
Heat Ageing — Tensile Strength	AS 4654.1 App A	1.79 MPa	State result	—
UV Exposure — Elongation at Break	AS 4654.1 App A	34%	≥40% of control (29%)	PASS
UV Exposure — Tensile Strength	AS 4654.1 App A	0.63 MPa	State result	—
Cyclic Movement (CSIRO Moving Joint)	AS 4654.1 App B	50 cycles — no failure	No rupture or holing	PASS
Dimensional Stability	ASTM D6207	No changes observed	State result	—

Test / Property	Test Method	Result	Requirement	Assessment
Bond Strength to Concrete	ASTM C794	23.45 N	State result	—
Field Seam Strength	AMTM005	103.83 N/25 mm	State result	—
Temperature Resistance (WVT)	AMTM004	0.38 g/m ² /24 hr	State result	—
Water Vapour Transmission	ASTM E96	0.36 g/m ² /24 hr	State result	—

Sealrite WSM is not suitable for trafficable or maintenance-access surfaces and must always be covered with an appropriate protective screed, topping or tile bed.

SURFACE PREPARATION

All substrates must be structurally sound, smooth, clean, dry and free from surface moisture and contamination. Rough surfaces and voids must be filled and levelled prior to application. All surface defects must be repaired before membrane installation. Building surfaces must be constructed in accordance with manufacturer requirements, relevant building codes and applicable Australian Standards. No sharp protruding objects, loose material, dirt, dust, de-bonded coatings, release agents, wax residues or other contamination must be present at the point of application.

PRIMING

Priming is required prior to installation on all substrates to ensure correct adhesion of the Sealrite WSM membrane. Primer selection must be based on substrate type, surface condition, porosity and moisture content. Refer to the relevant primer TDS and consult BuildGreen Technical Support if substrate suitability is uncertain.

Primer	Notes
SMP	Solvent-based multi-purpose primer suitable for a wide range of substrates including metal, plastic, galvanised iron, Zincalume, glazed surfaces, dense concrete and other non-porous or low-porosity surfaces.
Keragrip Eco	Adhesion-promoting primer for compact and non-absorbent substrates requiring enhanced mechanical bonding prior to waterproofing installation.
Active Prime Fix	Multi-surface, water-based primer for adhesion promotion and surface preparation on porous, semi-porous and absorbent substrates.
Kerashield Primer	Specialist primer formulated for approved Sealrite WSM and waterproofing system applications across a range of substrate types.
Other approved primers	Additional primers may be suitable depending on substrate porosity, moisture condition and site requirements. Consult BuildGreen Technical Support for selection guidance.

INSTALLATION GUIDANCE

The following guidance is provided as a general installation overview only. Always refer to the current project specification, system drawings, product TDS documents and relevant Australian Standards before installation.

Step	General Requirement
1. Substrate check	Confirm the substrate is clean, dry, sound, smooth and suitable to receive Sealrite WSM. Repair voids, sharp edges, loose areas and defects before application.
2. Priming	Prime all substrates with an approved primer appropriate to the substrate type, porosity and moisture condition. Allow primer to dry fully in accordance with the relevant TDS before proceeding with membrane installation.
3. Detailing	Pre-detail corners, penetrations, joints, wall/floor junctions, outlets and terminations in accordance with the project specification and BuildGreen system details.

Step	General Requirement
4. Membrane application	Cut Sealrite WSM to size. Remove the release liner progressively and position the sheet carefully, avoiding wrinkles, fishmouths, voids and trapped air. Apply firm, consistent pressure across the entire membrane surface using a hand roller or suitable pressure tool, working from the centre outward, to ensure full contact and correct adhesion.
5. Laps and junctions	Treat sheet laps, floor/wall junctions and penetrations using the nominated compatible detailing tapes, liquid membranes or system accessories.
6. Protection	Protect the installed membrane from damage, prolonged UV exposure and site traffic. Cover with the nominated protective screed, topping, tile bed, render or coating system as required.

LIMITATIONS AND IMPORTANT NOTES

Limitation	Detail
Not suitable for trafficable surfaces	Sealrite WSM will be abraded under foot or vehicle traffic. Always cover with a protective screed, tile bed, topping, render or approved finish.
Not recommended as an exposed finish	The membrane must be protected from prolonged UV exposure and physical damage.
Not to be used over expansion joints	Expansion joints require a purpose-designed flexible joint treatment.
Residual moisture in concrete	Concrete with residual moisture must be sealed with an appropriate moisture-tolerant primer before application.
Solvent-based products	Solvent-based finishes must be tested and approved in conjunction with Sealrite WSM.
Application temperature	Apply only within the range of +10 °C to +35 °C. Do not apply to frost-affected or overheated surfaces.

PACKAGING, STORAGE AND HANDLING

Store rolls in original packaging in a clean, dry and protected area. Keep away from direct sunlight, excessive heat, sharp objects and solvent-based materials. Handle rolls carefully to avoid damage to edges, adhesive surfaces and release liner.

Sealrite WSM may be cut to required widths on site using suitable cutting equipment. Ensure cut edges remain clean and free from dust, oil, moisture and contaminants before installation.

COMPLIANCE AND SYSTEM DESIGN

Sealrite WSM has been tested as a **Class II membrane** to AS 4654.1:2012 and AS 4858:2004. System design, substrate preparation, falls, drainage, detailing, protection and final finishes must be suitable for the application and installed in accordance with relevant Australian Standards, building codes and project requirements.

For project-specific details, unusual substrates, high-exposure conditions, chemical exposure, remedial work or compatibility with third-party products, consult BuildGreen Technical Support before use.

VALUES, RECOMMENDATIONS AND WARRANTY

Values: All values presented have been determined by standard test methods and are average values only.

Recommendations: Whilst BuildGreen may recommend products from its range for specific applications, the customer/user must complete their own assessment and testing to determine suitability for their application under working conditions. If longevity is important, ageing tests should be carried out.

GUARANTEE: BuildGreen warrants that this product ("the Product") is free from manufacturing defects and will perform in accordance with BuildGreen's published specifications for 20 years from the date of purchase.

BuildGreen's liability under this warranty is limited, at its discretion, to replacement of the Product, repair of the affected application area, or reimbursement of the reasonable cost of replacement or repair, where BuildGreen determines that the loss or damage resulted from a defect in the Product.

This warranty does not apply to loss or damage arising from failure to follow BuildGreen application instructions, incorrect surface preparation or installation, normal wear and tear, site conditions or factors beyond BuildGreen's control including efflorescence, substrate movement, moisture ingress, weathering, or colour variation, or misuse, neglect, or improper application.

Claims must be submitted to BuildGreen in writing within 30 days of the alleged defect becoming apparent and must include proof of purchase and supporting details. BuildGreen reserves the right to inspect the application and request additional information. Any costs associated with making a claim are the responsibility of the claimant.

This warranty is provided in addition to rights available under the Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

DISCLAIMER: The technical information, recommendations, and application details contained in this Technical Data Sheet are provided in good faith and are based on BuildGreen's knowledge and experience at the time of publication.

Users are responsible for determining the suitability of the Product for the intended application and for ensuring correct preparation, handling, and installation in accordance with applicable Australian Standards, building codes, and industry practices. As site conditions, substrates, environmental factors, and application methods vary, users should conduct their own testing to confirm product suitability and performance for the intended use.

BuildGreen reserves the right to amend product information without notice as part of ongoing product development and improvement.