

ULTIMATE BOND BRAKER SILICONE SEALANT



Description

Simseal Ultimate Bond Breaker Silicone Sealant is a silicone sealant with excellent resistance to weathering, UV radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants, and many cleaning detergents and solvents. It is a single-component elastomeric sealant that is permanently elastic upon curing and has a movement capability of $\pm 50\%$.

Specially formulated to achieve superior performance and feature low VOC emission and content, Ultimate Bond Breaker is able to comply with the stringent requirements of ASTM C920 as well as contribute to the Leadership in Energy and Environmental Design (LEED) v4.1 credit.

Ultimate Bond Breaker also conforms to MS-1583: Part 1: 2003 – Suitability of Non-Metallic Product for use in contact in water intended for human consumption with regard to their effect on the quality of water. Additionally Ultimate Bond Breaker meets the requirements for AS/NZS 4020:2005, testing of products for use in contact with drinking water.

Key performance Properties

- 100% Neutral Silicone
- Certified Green Building Standard
- Food Contact Safe
- $\pm 50\%$ Movement Capability
- Excellent Weathering Resistance
- Permanently Flexible
- Indoor and Outdoor Use

Applications

Well-suited for a strong weatherproof seal on most common building materials such as glass, aluminum, galvanized and zinc-coated steel, painted surfaces, brick, concrete and mirror bonding. Ideal for sealing metal lap joints in roofing, guttering and cladding applications.

Specifications

Simseal Roof, Glass & Gutter meets the requirements of:

- ASTM C920 & ASTM C719, Type S, Grade NS, Class 50, Use NT, M, A & G
- ISO 11600, F Class 25 LM
- Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant
- Low VOC - USEPA Method 24 under SCAQMD Rule 1168 & USEPA Method 310
- FDA 21 CFR Part 175.300 (Food Contact Safe)
- AS/NZS 4020:2005, Testing of Products for Use in Contact With Drinking Water. (VT-210 Grey)
- Sirim Test - ASTM D412: 2016 & MS1583-Part 1-2003
- RoHS I, RoHS II, RoHS III & SVHC

Property	Value
Curing system	Moisture curing, neutral
Specific Gravity	1.02 g/mL
Slump ASTM D2202	<1 mm
Application Temperature	-20 - +50 °C
Shore A Hardness ASTM C661	25
Maximum tensile strength ASTM D412	1.3 N/mm ²
Elongation At Break ASTM D412	370 %
Movement capability ASTM C719/ISO 11600	$\pm 50\%$
VOC content	43.68 g/L 0.86 %

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Application

Cut nozzle at 45 Degree angle to desired bead width, and apply to substrate with sealant gun and tool within 5-10 minutes. Uncured sealant can be cleaned up with mineral turpentine. Some surfaces may need a primer. If so, allow primer to dry before applying sealant. Use approved backing material for joints over 10mm deep. For a neat appearance to the joint, use masking tape. Always remove masking tape before sealant has skinned over.

Surface preparation

Substrate surface must be dry and clean; free of dirt, grease, oil, or standing water. For a neat finishing, use masking tape and remove it within the working time. Primer is recommended especially for porous substrates such as concrete for excellent adhesion. For sealant designs with depth of over 10 mm, use approved backing materials.

Packaging

450gm Cartridges - Available in cartons of 20.
Product Packed in Australia.

Storage/Shelf life

The shelf life of Simseal Ultimate Bond Breaker Silicone Sealant is 12 months if stored in a cool dry place. The storage temperature should not exceed 30°C as this will decrease shelf life.

Coverage

Calculation formula:

$$X / [(Y \times Z) \times 1.1] = \text{Coverage}$$

X = volume of cartridge (or sausage) in ml,

Y = joint width in cm, Z = joint depth in cm,

1.1 = 10% wastage assumption,

Coverage = linear meter run in cm per cartridge (or sausage)

The coverage figures shown below are approximate linear meter run based on 10% wastage assumption. Actual coverage may vary.

Width	Depth	Coverage (300 ml) *
6 mm	6 mm	7.58 meter
10 mm	10 mm	2.73 meter
20 mm	10 mm	1.36 meter
25 mm	12 mm	0.91 meter

Health and safety

Product releases methylethylketoxime during application and curing. May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. For further health and safety information, consult the latest safety data sheet. **KEEP OUT OF REACH OF CHILDREN.**

Limitations

Not recommended for following applications:

- Structural glazing applications.
- Below waterline or permanent water immersion.
- Traffic areas subject to abrasion.
- Polycarbonate and polyacrylate, if under tension.
- Applications that requires the sealant to be painted.
- Neoprene rubber.

Legal Notes

Every endeavor has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.

COLOURS



White