SIMSEAL®

SEAL WITH GLOBAL EXCELLENCE

# MULTI PURPOSE

## ACETIC SILICONE SEALANT

LOW VOC CONTENT

**Description**

**Multi Purpose - Acetic Silicone Sealant** is a general purpose acetoxy silicone sealant. It has excellent resistance to weathering, UV radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants, and many cleaning detergents and solvents. This elastomeric sealant is permanently elastic upon curing.

Specially formulated to achieve low VOC, Multi Purpose is able to comply to the requirements of SCAQMD rule #1168 (Architectural Sealant) for low VOC.

**Technical Data**

| PROPERTY | VALUE | |
|---|---|---|
| **Curing System**: | Moisture curing, acetoxy | |
| **Specific gravity**: | 1.00 – 1.04 g/mL | |
| **Slump:** | <1 mm | |
| **Tensile strength:** | 1.0 N/mm² | |
| **Elongation at Break:** | >250 % | ASTM D412 |
| **Shore A hardness:** | 25 - 35 | ASTM C661 |
| **VOC content:** | 26 g/L | USEPA Method 24 |
| **Low VOC compliance:** | Yes | SCAQMD Rule 1168 |

**Key Performance Properties**

- 100% acetic silicone
- Low VOC compliant
- Food contact safe
- Industrial grade
- Permanently flexible
- Indoor and outdoor use

**Applicable Tests / Standards**

Multi Purpose meets the requirements of:

- Low VOC - USEPA Method 24 under SCAQMD rule 1168
- FDA 21 CFR part 175.300 (Food contact safe)
- RoHS I & RoHS II Directive 2011/65/EU

**Application**

- General glazing: Glass, aquarium, fiberglass, plastic, aluminium, most painted and powder-coated materials.
- Curtain wall sealing: Glass, and plastic.
- General sealing: Skylights, ventilators, air-conditioning.

**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.
- For sealant designs with depth of over 10 mm, use approved backing materials.

**Application Direction**

1. Cut the cartridge tip carefully.
2. Cut the nozzle into an appropriate diameter at an angle of approximately 45° to 60°.
3. Use a caulking gun and extrude the sealant with a single bead.
4. Tool the sealant bead with a clean and dry tool within the working time for a smooth finishing.

**Preparation**

- Wet sealants can be cleaned up with acetone or mineral spirits.
- Cured sealants can only be removed mechanically.

**BASE**
Silicone polymer

**PHYSICAL STATE**
Paste (Before curing) Elastic rubber (After cured)

**TACK-FREE TIME**
5 – 15 minutes (at 25°C & 50% R.H.)

**PACKAGING**
300 mL/cartridge (24 cartridges/carton)

**SHELF LIFE 12 months**
(cartridge)

**STORAGE**
Store in a dry and cool place with temperature below 30 °C

**APPLICATION TEMPERATURE**
-20 °C – 50 °C

**SERVICE TEMPERATURE**
Up to 150 °C

**Joint Design**
- The specified sealant bead size should be calculated to comply with the compression and extension capabilities of the sealant in relation to the anticipated joint width due to expansion and contraction.
- Generally calculation of the width sealant bead should be computed on the basis of a maximum ±25 % movement capability
- Minimum joint depth should not be less than 6 mm to accommodate movement.
- Sealant design joint width-to-depth ratio should be 2:1.

**Coverage**

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

* The coverage figures shown above are approximate linear meter run based on 10% wastage assumption. Actual coverage may vary.
- Calculation formula:

***X / [(Y x Z) x 1.1] = 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)

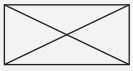
**Packaging**
300mL Cartridge -
Available in cartons of 20
Product packed in Austr`alia

**Limitations**
Not recommended for following applications:
- Substrates that could be corroded by acetic acid released as the sealant cures.
- Copper or any alloys containing copper.
- Polyethylene, polypropylene, and polytetrafluoroethylene (Teflon)
- Traffic areas subject to abrasion.
- Structural glazing.
- Substrates such as concrete, marble, quartzite, or natural stone.
- Neoprene rubber.

**Caution**
Product releases acetic acid during application and curing. Keep out of reach of children. Use in well ventilated areas. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

**Applicator Responsibility & Limitation of Liability**
The applicator/installer is solely responsible for testing the suitability of any Simseal® product for the intended substrate, environment and use, including on-site adhesion, stain/bleed tests, and confirming colour/appearance (including batch or shade variations). Use of the product constitutes acceptance of suitability and colour. Except as required by the Australian Consumer Law, Simseal® disclaims liability for losses arising from application/installation methods, site conditions, or use outside Simseal's published instructions. To the maximum extent permitted by law, Simseal's liability is limited to replacement of the goods or the supply of equivalent goods.

**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.


CLEAR

WHITE

GREY

BLACK