

S60 CLAD & GLAZE

ARCHITECTURAL WEATHERING SEALANT



Description

S60 Architectural Weathering Sealant is a non-slumping high performance, 100% neutral cure silicone sealant formulated with calcium carbonate filler system. It has 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, S60 is able to comply with the stringent requirements of ASTM C920 as well as contributing to the Leadership in Energy and Environmental Design (LEED) v4.1 credit.

Key Performance Properties

- 100% neutral silicone
- $\pm 50\%$ movement capability
- Certified Green Sealant
- APEO-, formaldehyde- and phthalate- free
- Weatherproof seal
- Permanently flexible
- Indoor and outdoor use
- Matte finish

Technical Data

PROPERTY	VALUE
Curing system:	Moisture curing, neutral
Skin Time:	10-30 minutes (at 25° & 50% R.H.)
Specific gravity:	1.33 g/mL
Slump (ASTM D2202):	<1 mm
Maximum tensile strength (ASTM D412):	1.3 N/mm ²
Elongation at break (ASTM D412):	360 %
Movement capability (ASTM C719):	$\pm 50\%$
Shore A hardness (ASTM C661):	33
Adhesion-in-peel (ASTM C794):	>35 N
Low VOC compliance (SCAQMD Rule 1168):	Yes
VOC content (USEPA Method 24):	45.54 g/L

Applications

- Strong weatherproof seal on most common building materials such as glass, aluminium, galvanised and zinc-coated steel, painted surfaces, brick and concrete.
- Not to be used for structural glazing applications.

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.



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APPLICABLE TEST / STANDARD

S60 meets the requirements of:

- ASTM C920 and ASTM C719, Type S, Grade NS, Class 50, Use NT, M, A & G
- Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant
- Low VOC - USEPA Method 24 under SCAQMD Rule 1168
- Sirim Test - ASTM D412: 2016

APPLICATION DIRECTION

Cartridges:

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.

Sausages:

1. Cut the tip of the sausage carefully and slip it into the caulking gun.
2. Cut the nozzle into an appropriate diameter at an angle of approximately 45° to 60°.
3. Place the nozzle into the caulking gun and screw tight.
4. Extrude the sealant with a single bead.
5. Tool the sealant bead with a clean and dry tool within the working time for a smooth finishing.

CLEAN UP

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

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 ±50 % 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.

Width	Depth	Coverage (300ml)*
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 lineal meter run based on 10% wastage assumption. Actual coverage may vary.

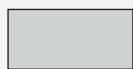
- Calculation formula:
- $X / [(Y \times Z) \times 1.1] = \text{Coverage}$
- X = volume of cartridge (or sausage) in ml,
- Y = joint width in cm, Z = joint depth in cm,
- 1.1 = 10% wastage assumption,
- Coverage = lineal meter run in cm per cartridge (or sausage)



MATTE WHITE



MATTE BLACK



MATTE GREY

Packaging

300 mL Cartridge -
Available in cartons of 20
Product packed in Australia

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.

Caution

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.

KEEP OUT OF REACH OF CHILDREN. For further health and safety information, consult the latest safety data sheet.

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.