



Aussie Seal® Silicone 100

High Performance Neutral-Cure Silicone Sealant

Product Name

Aussie Seal® Silicone 100

Manufactured by

AVM Industries, Inc.
8245 Remmet Ave, Canoga Park, CA
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www.avmindustries.com

Product Description

Aussie Seal® Silicone 100 is a high-performance, one-component, moisture-curing, ultra-low-modulus neutral silicone designed for demanding weatherproofing and moving joints. It provides excellent adhesion to substrates such as coated glass, anodized aluminum, painted metals, precast concrete, and air-barrier systems, making it ideal for complex building envelopes.

Engineered for long-term flexibility, it suits curtain walls, precast panels, metal systems, and window perimeters where movement must be accommodated. Suitable for both perimeter caulking and expansion joints, it simplifies product selection on site. It applies easily in all climates and cures with atmospheric moisture to form a durable, UV, weather, and temperature-resistant elastic joint.

Advantages

- Ultra-low modulus for reduced stress on substrates
- ASTM C719 Class +100/-50% joint movement capability
- Waterproof & weather resistant
- Long term UV resistance
- Low sag
- No mixing

Where to Use

Aussie Seal® Silicone 100 is designed for demanding, high-movement joints, including aluminum framing, curtain walls, unitized façades, metal panels, window and door perimeters, concrete and tilt-wall joints, glazing, and expansion or control joints. It performs well with dissimilar materials such as metal-to-concrete assemblies.

Additional uses include exterior wall joints, PVC and ACM panels, polycarbonate systems, roof joints, drainage systems, solar panel frames, and polyethylene-backed air-barrier systems, delivering reliable, long-lasting adhesion and weather sealing.

Substrate Preparation

Bonding surfaces must be clean, dry and free of oxidation, mill oils, wax, and release agents that may interfere with adhesion. Dry and fully cure painted surfaces before bonding. Alcohol and ammonia water are effective cleaners for surface preparation. Abraded or irregular surfaces are acceptable bonding surfaces but must be clean and sound.

Application Method

Install appropriate backing material (closed-cell polyethylene or open-cell polyurethane foam) to ensure two-sided adhesion. Apply sealant in a continuous bead, ensuring the joint is completely filled without air pockets. Tool the sealant before skin formation to ensure full contact with joint surfaces. Remove excess uncured sealant with a dry or solvent-dampened cloth. Remove sealant mechanically or with a silicone remover.

Cold Weather Application:

Cure time will be extended. Keep Sealant at around 70°F (21°C) for 24 hours prior to use. Remove dew, frost, or ice with acetone before applying.

Cure Time:

Tack Free: about 60 minutes.
Full Cure: 2-3 mm per 24 hours (varies with temperature and humidity).

Shelf Life & Storage:

Shelf life is 12 months from date of manufacture.

Store unopened containers in a cool dry area at 40°F-80°F (4°C-27°C). Protect from water, heat and direct sunlight. Elevated temperatures will reduce shelf life.

Limitations

Not paintable. Do not apply to damp, contaminated, or frosted substrates, or use in continuous water immersion, structural glazing (unless approved), or traffic-bearing joints.

Not suitable for substrates that bleed oils or plasticizers, totally confined joints (requires atmospheric moisture to cure), food-contact applications, extreme temperatures above 150°C or below -40°C, or mill-finish aluminum.

Clean up

Remove excess material using acetone and disposable paper towels or cloth rags before the material cures on placement tools and adjacent surfaces. Dispose of waste material in compliance with local regulations.

Warranty

AVM warrants Aussie Seal® Silicone 100 performance, provided it is properly stored and applied within 1 year. If Aussie Seal® Silicone 100 is proved to be defective, return remaining product and product exclusive of labor or cost of labor. This is the sole and exclusive remedy for defects or failure of this product. User must read and follow the direction of the current Technical Data Sheet and SDS prior to product use. User determines suitability of product for intended use and assumes all risks. AVM shall not be liable for damages (including consequential or incidental damages) in excess of the purchase price, except where such exclusion or limitation is prohibited by state law. This warranty is in lieu of all other warranties, written or oral, statutory, express or implied including any warranty of merchantability or fitness for a particular purpose; except for the above express warranty given by AVM, the product is sold with all faults. AVM shall not be responsible for the use of this product in a manner to infringe on any patent or any other intellectual property rights held by others.

For additional warranty claim information, call 818-888-0050.

Conforms to:

- ASTM C920, ISO 11600, GB 16776
- Federal Specification TT-S-00230-C, Type I, Class B
- Army Corps of Engineers CRD-C-541, Type I, Class B
- Canadian Standards Board CAN 19,13-M- 82

Delivery, Storage, and Handling

a. Delivery of all the Aussie Seal Silicone 100 materials to the job site must be in their original sealed containers, with manufacturer's name and label intact.

b. Shelf Life: Twelve months from date of manufacture when stored at 70°F / 21°C with 50% relative humidity. High temperature and high relative humidity may significantly reduce shelf life. Pails have a shelf life of six months.

c. Store at temperatures between 50°F and 75°F. Do not store materials in direct sunlight or where they may be damaged by water or rain.

d. Failure to comply with the recommended storage conditions may result in premature deterioration of the product.

e. Keep all materials out of the reach of children.

Quality Control

a. Visually inspect all coated surfaces to ensure a full and proper application, especially at penetrations, seams, corners, drainage footings and other hard-to-reach areas.

b. All unsatisfactory areas shall be repaired prior to final acceptance.

Availability and Cost

Contact AVM Industries or your approved applicator for pricing and availability.

Technical Services

Technical Services are available by contacting our offices at: 888.414.1041 or 818.888.0050 or visit www.avmindustries.com

Technical Information Specific	Test Results	Test Performed
Extrudability	>600 ml/min	ASTM C 1183
Hardness, Shore A	25	ASTM C661
Tack Free Time	<45 minutes	ASTM C679
Cyclic Movement	100%	ASTM C719
Elastic Recovery	98%	EN ISO 7389
Tensile Strength	(0.9 MPa)	EN ISO 8339
Tensile Properties at Maintained ext	No adhesion failure	EN ISO 8340
Adhesion/Cohesion at Diff. Temp	No adhesion failure	EN ISO 9047
Flow Properties: Horizontal	0mm	ASTM C 639
Flow Properties: Vertical	No deformation	ASTM C 639
Staining & Discoloration	No staining or discoloration	ASTM C 510
Peel Resistance: On Mortar	100.4 N	ASTM C 794
Peel Resistance: Vertical	104.6 N	ASTM C 794
Heat Aging on Mortar	110.2 N	ASTM C 794
Heat Aging Vertical	0.5%	ASTM C 794
Heat Aging Application Temperature	No staining or discoloration	ASTM C 794
Volatile Organic Compounds (VOC)	45 g/L	

All properties described in this document are derived from testing conducted in laboratory conditions. Properties and performance will vary depending on environmental conditions and application technique. Test and evaluate to determine appropriate usage.

Visit www.avmindustries.com for the Safety Data Sheet and pertinent documentation.

For a complete list of details in BIM (revit), CAD or PDF, please visit our website at www.avmindustries.com.

<https://www.avmindustries.com/approvals/>

Learn more about the detailed standards our products meet for approvals by various US or International Agencies or Code Councils

<https://www.avmindustries.com/patents/>

Some features of our product or assembly may be protected under one or more US or International Patent(s)

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Quality Waterproofing Products

