

Technical Data Sheet

AS-207

Weatherseal Sealant

Physical Properties

Base:

Silicone polymer

Appearance:

Non-sagging paste
(Before curing)

Elastic rubber
(After cured)

Colours:

Matte black & matte grey

Tack-free / Skin-form time:

10 – 30 minutes
(at 25 °C & 50% R.H)

Application temperature:

-20 °C to 50 °C

Service temperature:

Up to 150 °C

Storage:

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

Shelf life:

12 months (Cartridge &
Sausage)

Packaging:

Content	Quantity/ carton
300 mL cartridge	24
800 g sausage	20



Description

ALSEAL Weatherseal Sealant is a one-component, non-slumping high performance, 100% neutral cure silicone sealant formulated with calcium carbonate filler system. It gives superior adhesion and durability in a wide range of glazing, weather sealing and trade applications. It has excellent resistance to weathering, UV radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants, and many cleaning detergents and solvents.

Features

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

Applications

- ♦ Well-suited for a strong weatherproof seal on most common building materials such as aluminium, galvanized and zinc-coated steel, painted surfaces, glass, brick and concrete.
- ♦ Widely used to seal external aluminium composite panels.

Technical Data

	AS-207	AS-207T
Curing system	: Moisture curing, neutral	
Density	: 1.33 g/mL	: 1.02 g/mL
Slump (ASTM D2202)	: <1 mm	: <1 mm
Maximum tensile strength (ASTM D412)	: 1.3 N/mm ²	: 1.3 N/mm ²
Elongation (ASTM D412)	: 360 %	: 370 %
Movement capability (ASTM C719)	: ±50 %	: ±50 %
Shore A hardness (ASTM C661)	: 33	: 25
Adhesion-in-peel (ASTM C794)	: >35 N	: >35 N
VOC content (USEPA Method 24)	: 45.54 g/L	

Approvals/ Specifications

AS-207 meets the requirements of the following specifications:

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



AS-207 Weatherseal Sealant

1. Surfaces must be clean, dry and free of dirt, grease, oil or water.
2. Surfaces should be cleaned with alcohol, M.E.K. or other suitable solvent. Do not use soap or detergent.
3. For a neat finish, apply masking tape and remove it before sealant skins over.
4. Cut nozzle at 45° angle to desired bead-width and apply to substrate with cartridge gun.
5. Tool the sealant within 10 minutes of extrusion before it skins. Tack-free in 20 minutes.
6. Uncured sealant can be cleaned up with mineral spirits.

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 $\pm 50\%$ 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.

Coverage

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

* The coverage figures shown above are approximate linear 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 = linear meter run in cm per cartridge

Limitation

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. Avoid breathing vapours. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. IF ON SKIN: Wash with soap and water. If skin irritation or a rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Keep out of reach of children. Contain aminosilane. May produce an allergic reaction. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

Disclaimer

Every endeavour 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.

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