

Product Information

Silicone Sealants

DOW CORNING

Dow Corning® 758 Silicone Weather Barrier Sealant

FEATURES & BENEFITS

- Excellent adhesion to a wide range of building materials, including polymeric surfaces that are traditionally difficult to adhere to, such as peel and stick weather resistant barriers
- Priming not required on most surfaces
- Usable over wide temperature range
- Excellent adhesion to extruded and formed silicone sheet materials
- Adheres to many polyethylene film based weather resistant barriers
- Adheres to many spun-bonded polyolefin and fibrous or woven air barriers
- Adheres to many other sealing elements such as flashing or elastomeric liquid applied weather barriers
- Adheres to many common fenestration element materials such as anodized aluminum, vinyl, PVC, powder coat, paint and fluoropolymer coatings
- Contributes to improved air tightness of window installations
- UV resistant
- Excellent durability, does not become brittle or crack
- Movement capability of +/- 25% in a properly designed joint

COMPOSITION

- One part RTV, neutral-cure silicone sealant

Neutral one part silicone sealant, designed for adhering to low energy surfaces common in sheet or peel and stick weather resistant barriers.

APPLICATIONS

- Interior air sealing between a sheet or liquid applied weather resistant barrier and fenestration element
- Edge lap seal for weather resistant barriers
- Sealing penetrations in weather resistant barriers such as plumbing or ductwork
- Sealing other difficult to adhere surfaces such as mill finishes and plastics

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test	Property	Unit	Result
As Supplied			
CTM ¹ 0098	Working Time 25°C and 50% RH	min	15
ASTM ¹ C639	Flow, Sag or Slump	inches	0.06
EPA Method 24	VOC Content	g/L	25
As cured – 21 days at 25°C (77°F) and 50% RH			
C661	Durometer Hardness, Type A		30
ASTM D412	Ultimate Tensile Strength	psi	200
ASTM D412	Ultimate Elongation	%	800
ASTM C794 Peel Strength:			
	Unprimed to HDPE Sheet	ppi	> 20
	Unprimed to anodized aluminum	ppi	> 40
	Unprimed to vinyl	ppi	> 40
	Unprimed to powder coated aluminum	ppi	> 40
	Unprimed to Kynar® coated aluminum	ppi	> 40
	Primed to Concrete	ppi	> 20
ASTM C719	Joint Movement Capability	%	+/- 25

¹CTMs (Corporate Test Methods) correspond to standard ASTM (American Society of Testing and Materials) tests in most instances. Copies are available upon request.

²Measured in accordance with EPA Method 24 and reported exclusive per South Coast Air Quality Management District Rule 1168 guidelines.

TYPICAL PROPERTIES (continued)

Test	Property	Unit	Result
As Cured – After 21 days at 25°C (77°F) and 50% RH followed by 10,000 hours in a QUV weatherometer, ASTM G 53			
ASTM D412	Ultimate Tensile Strength	psi	200
ASTM C794	Peel Strength ³		unchanged

³Uprimed to glass.

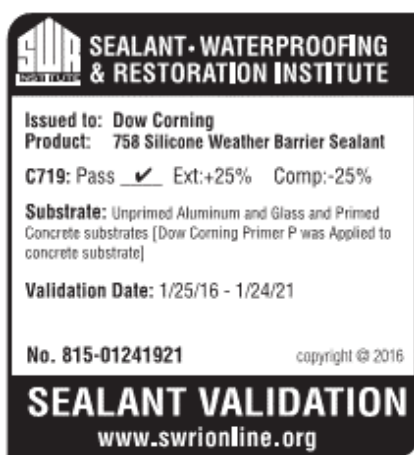
DESCRIPTION

Dow Corning[®] 758 Silicone Weather Barrier Sealant is a one part, neutral cure silicone available in white. It easily extrudes and cures at room temperature by reaction with moisture in the air to form a durable, flexible rubber seal.

This medium modulus sealant is specially designed for the weathersealing of weather resistant barriers where low movement is anticipated, such as window and door frames and wall penetrations.

APPROVALS/ SPECIFICATIONS

- ASTM C920 Type S, Grade NS, Class 25
- ASTM C719 +/-25% movement



HOW TO USE

Please consult the *Dow Corning Americas Technical Manual*, Form No. 62-1112, for detailed information on state-of-the-art application methods and joint design. Please contact your

local Dow Corning Sales Application Engineer for specific advice.

Surface Preparation

The application surface must be clean, dry, sound and frost-free. Mask adjacent surfaces and apply primer if required. Laboratory testing or field adhesion testing may be used to demonstrate primer requirements. Please contact your local Dow Corning Sales Application Engineer for specific advice.

Application

Install sealant according to Dow Corning published guidelines. Ensure the surfaces to be sealed are free of dust, dirt, debris and contaminants. Apply primer as needed and allow to dry as needed. Install backer material for any joint moving more than 15%. Lap joints will not require backer material. Apply and tool the sealant. *Dow Corning* 758 Weather Barrier Sealant should be tooled prior to it skinning over. Standard caulking tools, materials, and methods may be used.

JOINT DESIGN

The sealant joint should be designed so that the maximum expected sealant movement, including thermal, settlement and live load, does not exceed 25% in order to achieve a sufficient durability of the seal. Dow Corning recommends consulting with the flashing manufacturer for details on the movement capability of flashing materials as used in your joint configuration.

When detailing the sealant joints using *Dow Corning* 758 Weather Barrier Sealant, the following should be considered:

- *Dow Corning* 758 Weather Barrier Sealant may be used to seal lap joints between two pieces of flashing or other materials. Please ensure a ¼” (6 mm) sealant to substrate contact (“bite”) on each side of the lap joint and minimum ⅜” (3 mm) sealant depth.
- The minimum width of a perimeter joint, or “hourglass” joint should be ¼”. For joints between ¼” to ½” (6–12 mm) wide a minimum seal depth of ¼” (6 mm) is required.
- For joints above ½” (12 mm wide), a width to depth ratio of 2:1 should be used up to a maximum depth of ½” (12 mm).
- Joints in excess of 1” (25 mm) wide are possible but sealant depth should not exceed ½” (12 mm). It is recommended that specific recommendations be obtained from Dow Corning for any joints in excess of 3” (75 mm).
- In applications where fillet type joints are to be used, a minimum of ¼” (6 mm) sealant bite is recommended for each substrate.

**HANDLING
PRECAUTIONS
PRODUCT SAFETY
INFORMATION REQUIRED FOR
SAFE USE IS NOT INCLUDED IN
THIS DOCUMENT. BEFORE
HANDLING, READ PRODUCT
AND SAFETY DATA SHEETS
AND CONTAINER LABELS FOR**

SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 27°C (80°F), *Dow Corning 758 Weather Barrier Sealant* has a shelf life of 12 months from the date of manufacture. Refer to product packaging for “Use by Date.”

PACKAGING INFORMATION

Dow Corning 758 Weather Barrier Sealant is available in 20 oz (591 ml) sausages.

LIMITATIONS

Dow Corning 758 Weather Barrier Sealant should not be used:

- As an aesthetic weatherseal
- In below grade applications
- In structural application
- In continuous water immersion applications

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer’s tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning’s sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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