

Advanced Silicone 2* Window & Door Sealant

Product Description

Advanced Silicone 2 Window & Door sealant is 100% waterproof and can be exposed to rain or water in as little as 30 minutes. It is ideal for weatherproofing and application on a wide range of projects exposed to harsh weather conditions. This high-performance sealant is permanently flexible, shrink proof, crack-proof, and offers strong adhesion to many common substrates. It has 10-year mold free product protection, is low in odor, and will not blemish most metal finishes. From new construction to renovations, window and door installations to general weather sealing, versatile and proven Advanced Silicone 2 Window & Door sealant offers a durable yet highly flexible seal. Backed by a lifetime guarantee.

Product Attributes

- Meets ASTM C-920 Class 35 specifications
- 40% more flexibility than Class 25 sealants⁽¹⁾
- 5X stronger adhesion⁽²⁾
- 30-minute rain & water ready⁽³⁾
- 100% silicone is 100% waterproof and 100% weatherproof
- Resist mold⁽⁴⁾ with 10-year mold-free product protection
- Will not blemish most high-end metal finishes such as chrome, bronze and nickel
- Will not break down due to extreme weather conditions, freeze & sun-proof
- Shrink & crack-proof
- Excellent adhesion for wet or dry surface applications⁽⁵⁾
- Freeze/thaw stability
- Non-paintable



(1) Based on comparison of flexibility performance with ASTM C-920 Class 25 consumer sealant

(2) Based on comparison with our GE Silicone 1* sealant using ASTM C794 Peel Adhesion test

(3) Exposure to rain or water possible in as little as 30 minutes with bead size max 3/16", temperature min 65°F and humidity min 50%. Otherwise, sealant should not be exposed to water for 8 hours. Do not touch or clean caulk for 24 hours

(4) Cured sealant is resistant to stain-causing mold & mildew. Regular cleaning of sealant is required, however, as soap and other residue can cause secondary mold and mildew growth

(5) For wet surface application, wipe off excess water before applying

* Silicone 1 and Silicone 2 are trademarks of Momentive Performance Materials Inc.

Basic Uses

Advanced Silicone 2* Window & Door sealant is used in a wide variety of applications including, but not limited to windows, doors, siding, trim, vents, asphalt, cement, brick, mortar, and attic/basement applications.

Adheres To

Common building materials including most metals and wood, aluminum, composites, brick, stone, stucco, masonry, cement board, glass, porcelain, ceramic tile, drywall, plaster, vinyl siding, PVC, fiberglass, and painted surfaces, as well as metal finishes such as chrome, bronze & nickel.

Advanced Silicone 2 Window & Door sealant should not be considered:

- For structural repairs
- For use underwater or in other applications where the product will be in continuous contact with water
- For use in food contact applications
- When painting of the cured sealant is desired
- For use on aquariums
- For use on surfaces with special coatings, such as mirrors, without approval of the article's manufacturer
- Under exceedingly hot or cold conditions (see Sealant Application section for additional information)
- On frozen or contaminated surfaces
- On excessively basic or acidic substrates
- For use on surfaces that are above 120°F (49°C)

Packaging

Advanced Silicone 2 Window & Door sealant is currently available in 10.1 fl. oz. (299 mL) plastic caulking cartridges and 2.8 fl. oz. (82.8 mL) plastic squeeze tubes. Plastic cartridges and squeeze tubes are packaged as 12 units in cardboard boxes. Cartridges are dispensed using a single component hand or air-pressured caulking gun.

Advanced Silicone 2 Window & Door Sealant

Stock #	Model #	Color	Product UPC	Size	Carton Size	Coverage (3/16" bead)
GESIL2WD CLR	GE5000	Clear	077027050004	10.1 fl. oz.	12 each	51 Linear Feet
GESIL2WD WHT	GE5010	White	077027050103	10.1 fl. oz.	12 each	51 Linear Feet
GESIL2WD BLK	GE5030	Black	077027050301	10.1 fl. oz.	12 each	51 Linear Feet
GESIL2WD BRN	GE5080	Brown	077027050806	10.1 fl. oz.	12 each	51 Linear Feet
GESIL2WD LGR	GE50.08	Lt. Gray	077027050097	10.1 fl. oz.	12 each	51 Linear Feet
GESIL2WD ALM	GE5096	Almond	077027050967	10.1 fl. oz.	12 each	51 Linear Feet
SIL2WD CLR	GE500	Clear	077027005004	2.8 fl. oz.	12 each	13 Linear Feet
SIL2WD WHT	M90050	White	77027005007	2.8 fl. oz.	12 each	13 Linear Feet



Clear



White



Black



Brown



Light Gray



Almond

Typical Properties

Typical physical property values of Advanced Silicone 2* Window & Door sealant as supplied and cured are set forth in the tables below.

Typical Properties – Supplied

Property	Value	Test Method
Consistency	Paste	
VOC (ex. water & exempt)	< 28 g/L	WPSTM C1454
CARB Chem Curing (n.a.) VOC	< 3.0 wt%	
Odor	Light Ammonia	
Work Life (tooling time)	5-10 minutes	
Tack Free Time (@ 72°F (22°C), 50% RH)	30 minutes	ASTM C679
Rain-Ready	30 minutes	
Sag/Slump	< 0.2 inches	ASTM D2202

Typical Properties – Cured

Property	Value	Test Method
Hardness, Durometer (Type A Indenter)	15	ASTM D2240
Tensile Strength	145 psi	ASTM D412
Elongation	347%	ASTM D412
Specific Gravity	1.00	
Joint Movement Capability	±35% Glass +25% Mortar, Aluminum	ASTM C719
Service Temperature Range (after cure)	-60°F to +400°F (-51°C to 204°C)	
Weathering and U.V. Resistance	Excellent	30 year Study
Full Cure Time	24 hours	

Typical properties are average data and are not to be used as or to develop specifications.

Surface Preparation

- Surfaces must be clean, dry and sound prior to application of the sealant. All contaminants, impurities, or other adhesion inhibitors (such as moisture/frost, oils, old sealants, soaps and other surface treatments, etc.) must be removed from the surfaces to which the sealant is intended to adhere.
- For cleaning, a solvent-dampened clean rag usually produces the desired result. Isopropyl Alcohol (IPA) is a commonly used solvent and has proven useful for most non-porous substrates. When handling solvents, refer to manufacturer's SDS for information on handling, safety and personal protective equipment.
- Architectural coatings, paints and plastics should be cleaned with a solvent approved by the manufacturer of the product or which does not harm or alter the finish.
- Since porous materials can absorb and retain moisture, it is important to confirm that substrates are dry prior to application of the sealant.
- Cleaning of surfaces should be done within 1 to 2 hours of when the sealant is to be applied.

* Silicone 2 is a trademark of Momentive Performance Materials Inc.

Masking

The use of masking tape is recommended where appropriate to ensure a neat job and to protect adjoining surfaces from over-application of sealant. Masking tape should be removed immediately after tooling the sealant and before the sealant begins to skin over (tooling time).

Instructions

1. Remove dirt, grease, moisture, soap residue & old caulk from area to be sealed. Use backer rod for gaps larger than 1/2" x 1/2" (12.7mm x 12.7mm)⁽¹⁾.
2. Cut nozzle to obtain desired bead size.
3. PIERCE INNER FOIL SEAL.
4. Using caulk gun, apply sealant into gap. Smooth the sealant into gap.
5. Wipe hands & tools thoroughly before washing.
6. Allow a minimum of 30 minutes before exposing sealant to water.

(1) Sealant depth should be controlled with a closed cell, non-gassing type backer rod. Backer rod should be slightly larger in diameter (25 to 50%) than the joint width.

Sealant Application

- Apply sealant in a continuous operation applying a positive pressure adequate to properly fill and seal the seam, cavity or joint.
- Tool or strike the sealant with a concave tool, applying light pressure to spread the material against the joint surfaces to ensure a void-free application.
- When tooling, use care not to spread the sealant over the face of the substrates adjacent to the joint or masking as the silicone can be extremely difficult to remove on rough or porous substrates. Excess sealant should be cleaned from glass, metal and plastic surfaces while still uncured. On porous surfaces the excess sealant should be allowed to progress through the initial cure or set-up. It should then be removed by abrasion or other mechanical means.
- If sealant is applied when the temperature is below 32°F (0°C) or if frost or moisture is present on the surfaces to be sealed, the rate of cure will slow. For standard cure speed, apply in temperatures above 32°F.
- The cure rate of this product is dependent upon temperature and the availability of atmospheric moisture. Under average conditions (relative humidity of 50 ±5% at an air temperature of 73.4 ±2°F [23 ±1°C]) this material can attain a cured thickness of 2-3 mm per 24 hours (assuming ample access to atmospheric moisture). As temperature decreases, the cure rate slows down (and vice versa). Low moisture environments will also reduce the cure rate. Near-confined spaces, which limit the overall access to atmospheric moisture, will generally allow cure only at that surface which has access to the atmosphere.

Note:

- This material requires atmospheric moisture to cure from paste to rubber and may not attain its listed final cured rubber properties when used in designs or applications where the silicone is encapsulated and without access to atmospheric moisture.
- Some materials that bleed plasticizers or oils can cause a discoloration on the surface of sealants. When sealing to or over items such as: rubberized gaskets, bituminous based materials, butyl or oil-based products, oily woods, tapes, etc., compatibility testing prior to use is recommended.
- Silicone materials are hydrophobic in nature and if inadvertently over-applied onto adjacent joint surfaces (even if removed immediately), can create a waterproofing effect of a substrate when the substrate is wet. See section on Masking.

Specifications

Meets ASTM C-920, Type-S, NS, Class 35, Use G Test Requirements.

Meets ASTM C-920, Type-S, NS, Class 25, Use NT, M, G, A & O Test Requirements.

Federal Specification TT-S-00230C, TT-S-001543A

Suggested References

In addition to the guidelines provided herein, Momentive Performance Materials recommends that designers and users of Advanced Silicone 2* Window & Door sealant familiarize themselves with the latest editions of following industry guidelines and best practices:

1.) ASTM C1193 Standard Guide for Use of Joint Sealants.

Product Safety, Handling and Storage

Customers considering the use of this product should review the latest Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Safety Data Sheets are available at www.GEsealants.com or, upon request, from any MPM representative. Use of other materials in conjunction with MPM sealants products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular application.

* Silicone 2 is a trademark of Momentive Performance Materials Inc.

Customer Service Centers

Americas	+1 (866) 275-4372 Email: askgesa@momentive.com
Visit us at www.GEsealants.com	

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY "SUPPLIER"), ARE SOLD SUBJECT TO SUPPLIER'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER'S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBE HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier's materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier's products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

GE is a trademark of General Electric company. Used under trademark license.
Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.
*Silicone 1 and Silicone 2 are trademarks of Momentive Performance Materials Inc.
Copyright 2020 Momentive Performance Materials Inc. All rights reserved.

GEsealants.com