



# Technical Data Sheet

Revision: September 29, 2022  
Supersedes: August 2020  
Ref. #: 679043

## Paintable Silicone Supreme Window & Door Sealant



### DESCRIPTION

GE branded Paintable Silicone Supreme Window & Door is a premium sealant with a hybrid formulation that combines the outstanding waterproof performance you would expect from a Silicone sealant with the ease of use and paintability of an acrylic latex. This 100% waterproof sealant is ideal for most outdoor and indoor projects. It can be exposed to water or painted in as little as 30 minutes. Paintable Silicone Supreme sealant is permanently flexible, shrink-proof, sun-proof, and freeze proof. This sealant will not break down due to UV rays, and will not crack, or crumble over time. Backed by a lifetime guarantee.

#### Available as:

Item #	Country	Package	Size	Color
2861246	USA	Plastic cartridge	9.5 fl. oz. (280 ml)	White
2861535	Canada	Plastic cartridge	280 ml (9.5 fl. oz.)	White

### FEATURES & BENEFITS

- Hybrid performance, and paintable
- 100% waterproof
- 30-minute rain-ready [1]
- 30-minute paint-ready [2]
- Enhanced UV resistance
- Resists mold [3] when cured
- Permanent flexibility
- Excellent adhesion to wet or dry surfaces [4]
- Shrink & crack-proof
- Low odor
- Meets ASTM C-920 Class 25 specifications
- Lifetime Guarantee

### RECOMMENDED FOR

Paintable Silicone Supreme Window & Door sealant is used in a wide variety of applications including, but not limited to walls, backsplashes, countertops, and around fixtures, tubs, tile, and plumbing. Common building materials include most metals, plastics and wood, glass, drywall, plaster, granite, cultured marble, ceramic and porcelain tile, natural stone, cement board, fiberglass, aluminum, and most architectural/finishes and painted surfaces.

### LIMITATIONS

#### 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 (direct or indirect)
- For use in aquariums
- For use on surfaces with special coatings, such as mirrors, without approval of the article's manufacturer
- For use as a traffic bearing sealant or as chinking on log homes
- 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)
- For use on mirrors, under shower door tracks, or as a spackling compound.
- with fillers impregnated with oil, asphalt, tar, or any other migratory saturates

### COVERAGE

#### For a 9.5-fl. oz. (280 ml) cartridge:

- |  |  |
|--|--|
| • A 1/4" (6 mm) bead extrudes approx. 29.1 ft. (8.9 m) | • A 3/8" (9.5 mm) bead extrudes approx. 12.9 ft. (3.9 m) |
|--|--|



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## TECHNICAL DATA

Typical Uncured Physical Properties:		Typical Application Properties	
<u>Colors:</u>	White	<u>Application Temperature:</u> (substrate & ambient)	Sealant should be above 41°F (5°C) and below 104°F (40°C) For best results, apply between 60°F – 100°F
<u>Appearance:</u>	Non-slumping paste	<u>Tooling Time/Open Time:</u>	10 – 15 minutes*
<u>Base:</u>	Silane Modified Polymer	<u>Cure Time:</u>	24 – 48 hours*
<u>Odor:</u>	Alcohol	<u>Cure Rate:</u>	~ 2 – 3 mm/ 24 hours*
<u>VOC Content:</u>	White: 2.43% by weight    CARB 34.03 g/L                        SCAQMD	<u>Clean Up:</u>	Clean up uncured sealant residue with mineral spirits. Scrape away cured sealant using a sharp-edged tool
<u>Shelf Life:</u>	24 months from date of manufacture (unopened) Refer to Use by Date <b>For example:</b> Use by 09/23 = September 2023 is date of expiration		

\* At 73°F (23°C) and 50% relative humidity using 1/4" (6mm) thick bead  
Time is dependent on temperature, humidity, porosity of substrate, and amount of adhesive applied. Cure time is significantly increased in cold temperatures and/or low humidity conditions.

## Typical Cured Performance Properties

<u>Colors:</u>	White only	<u>Movement Capability:</u>	± 25%    (ASTM C719)
<u>Cured form:</u>	Non-flammable, rubbery solid	<u>Shore A Hardness:</u>	~ 30    (ASTM C661)
<u>Water Resistant:</u>	Yes, 30-minute water ready <sup>[1]</sup>	<u>Tensile Strength:</u>	130 psi    (ASTM D412)
<u>Paintable:</u>	Yes, with latex paint <sup>[2]</sup>	<u>Elongation at Break:</u>	300%    (ASTM D412)
<u>Shrinkage:</u>	Nil	<u>Service Temperature:</u>	-40°F (-40°C) to 176°F (80°C)
<u>Specifications:</u>	ASTM C-920, Type S, Grade NS, Class 25, Use NT, A Test Requirements		

- [1] Exposure to rain or water possible in as little as 30 minutes with bead size max 1/4", temperature min 65°F (18.3°C) and humidity min 50%. Otherwise, sealant should not be exposed to water for 8 hours. Do not touch or clean caulk for 24 hours
- [2] Sealant can be painted in as little as 30 minutes with bead size 1/4", temperature min 65°F (18.3°C) & humidity min 50%. Otherwise, seals should not be painted for 2 hours. Spray paint can be applied immediately. Apply paint with reduced applicator pressure to avoid disturbing the sealant. Not recommended with oil-based paints. If oil-based paints are used, first test applying an acrylic primer and paint in a small, inconspicuous area.
- [3] Fully cured sealant is resistant to stain-causing mold & mildew. Regular cleaning of sealant is required, however, as soap and other residues including airborne spores, pollen and other organic contaminants can cause secondary mold and mildew growth.
- [4] Can be applied to damp or dry surfaces. For wet surfaces, wipe off excess water before applying. Do not apply to materials that are water saturated such as wood and concrete. Do not use in areas of ponding water.



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## DIRECTIONS

### **Tools Typically Required:**

Utility knife, caulking gun and tool to puncture cartridge seal.

### **Safety Precautions:**

Wear gloves. Wash hands after use.

### **Surface Preparation:**

- Surfaces must be clean and sound prior to application of the sealant. All contaminants, impurities, or other adhesion inhibitors (such as 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 that has shown to be effective with most non-porous substrates. When handling solvents, refer to manufacturer's SDS for information on handling, safety, and personal protective equipment. Cleaning of surfaces should be done within 1 to 2 hours of when the sealant is to be applied.
- Use backer rod for gaps deeper than ¼ inch. A width to depth ratio of 2:1 should be maintained.
- 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.

**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).

### **Application:**

- Cut nozzle to obtain desired bead size and pierce inner foil seal.
- Using a caulking gun, apply sealant in a continuous operation applying a positive pressure adequate to properly fill and seal the seam, cavity or joint.
- Smooth or tool the sealant into gap within 15 minutes of application. 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 Paintable Silicone Supreme Window & Door sealant can be extremely difficult to remove from 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 40°F (4°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 40°F.
- The cure rate of this product is primarily 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, sealant will cure only from that surface which has access to the atmosphere.

### **NOTE:**

- 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.
- While Paintable Silicone Supreme Window & Door Sealant is generally considered a non-priming sealant, special circumstances or substrates may require a primer. It is the user's responsibility to test substrate compatibility, and the adhesion of the cured sealant on a test joint before applying to the entire project.
- Customers must evaluate GE branded products and make their own determination as to fitness of use in their particular application.
- In addition to the guidelines provided on this datasheet, Henkel Corporation recommends that designers and users of Paintable Silicone Supreme sealant familiarize themselves with the latest editions of the following industry guidelines and best practices:

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



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## STORAGE & DISPOSAL

**NOT DAMAGED BY FREEZING.** Store in unopened containers in a cool, dry area away from heat and direct sunshine under standard conditions. Standard storage conditions are defined as 72 ± 4°F (22 ± 2°C) and <50% relative humidity. Elevated temperatures or extreme cold temperatures will reduce shelf life. In cool or cold weather, store container at room temperature for at least 24 hours before using. Use an approved hazardous waste facility for disposal facility. Hardened material may be

## LABEL PRECAUTIONS

### **WARNING! UNCURED SEALANT IRRITATES EYES, SKIN AND RESPIRATORY TRACT.**

**WARNING!** Contains silane and crystalline silica. May be harmful if inhaled or swallowed. Methanol is released during application and cure, which may affect the nervous system causing dizziness, headache, or nausea. Use in a well-ventilated area. Do not breathe vapors. Avoid eye and skin contact. Prolonged or repeated skin contact with uncured sealant may cause irritation. Wear gloves and safety glasses when applying product. Remove contact lenses before using sealant. Wash hands after using.

**FIRST AID:** For eye contact flush with water for 15 minutes. Call a physician if irritation develops and persists. For skin contact, wash thoroughly with soap and water. If affected by inhalation, remove to fresh air and get medical attention. If ingested, do not induce vomiting; call a physician or Poison Control Center immediately. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

 **WARNING: Cancer and Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

Refer to the Safety Data Sheet (SDS) for further information

## DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Henkel recommends purchasers/users should test the products to determine acceptable quality and suitability for the intended use. All adhesive/sealant applications should be tested under simulated or actual end use conditions to ensure the adhesive/sealant meets or exceeds all required project specifications. Since assembly conditions may be critical to adhesive/sealant performance, it is also recommended that testing be performed on specimens assembled under simulated or actual production conditions. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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