



Technical Data Sheet

Revision: June 1, 2024
Supersedes: May 1, 2024
Ref. #: 477545

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 sealant is ideal for most outdoor and weatherproofing projects and can be exposed to water or painted in as little as 60 minutes. Paintable Silicone Supreme sealant is permanently flexible, shrink-proof, sun-proof, and freeze proof. This sealant will not break down due to UV exposure, will not crack or crumble over time and is backed by a lifetime guarantee.

Available as:

Item #	Country	Package	Size	Color
2733730	USA	Plastic cartridge	9.5 fl. oz. (280 mL)	White

FEATURES & BENEFITS

- Hybrid performance, and paintable
- 30-minute water-ready ^[1]
- 60-minute paint-ready ^[2]
- Permanent flexibility
- Meets ASTM C-920 Class 50 specifications
- Excellent adhesion to wet or dry surfaces ^[3]
- Shrink & crack-proof
- Low odor
- Lifetime Guarantee

RECOMMENDED FOR

Paintable Silicone Supreme Window & Door sealant is ideal for most exterior and weatherproofing projects and may be used on a wide variety of common building materials including most metals and wood, aluminum, brick, stone, stucco, masonry, cement board, glass, ceramic and porcelain tile drywall, plaster, vinyl siding, PVC, fiberglass, fiber cement, EIFS, some flashing tapes, 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
- On frozen or contaminated surfaces
- On excessively basic or acidic substrates
- For use on surfaces that are above 140°F (60°C)
- For use under shower door tracks, or as a spackling compound.
- For use 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. 13.3 ft. (4 m)



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TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	White	<u>Application Temperature:</u> (substrate & ambient)	Can be applied between 0°F (-18°C) and 140°F (60°C). Sealant should be above 41°F (5°C) and below 104°F (40°C)
<u>Appearance:</u>	Non-slumping paste		For best results, apply between 60°F (16°C) – 100°F (38°C)
<u>Base:</u>	Silane Modified Polymer	<u>Skin Formation Time:</u>	15 – 20 minutes*
<u>Odor:</u>	Alcohol	<u>Tack Free Time:</u>	15 hours ASTM C679
<u>VOC Content:</u>	2.9% by weight CARB 34.8 g/L SCAQMD	<u>Cure Time:</u>	24 – 72 hours*
<u>Shelf Life:</u>	24 months from date of manufacture (unopened) Refer to Use by Date For example: Use by 09/23 = September 2023 is date of expiration	<u>Cure Rate:</u>	~2 – 3 mm/ 24 hours*
		<u>Clean Up:</u>	Clean up uncured sealant residue with mineral spirits. Scrape away cured sealant using a sharp-edged tool

* 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 thickness of bead applied. Cure time is significantly increased in cold temperatures and/or low humidity conditions.

Typical Cured Performance Properties

<u>Color:</u>	White	<u>Service Temperature:</u>	-14°F (-25°C) to 158°F (70°C)
<u>Cured form:</u>	Non-flammable, rubbery solid	<u>Shore A Hardness:</u>	32 ASTM C661
<u>Water Resistant:</u>	Yes, 30-minute water ready ^[1]	<u>Joint Movement Capability:</u>	± 50% ASTM C719
<u>Paintable:</u>	Yes, with latex paint or primer ^[2]	<u>Tensile Strength:</u>	234 psi ASTM D412
<u>Shrinkage:</u>	Nil	<u>Elongation at Break:</u>	577% ASTM D412

Specifications: ASTM C-920, Type S, Grade NS, Use NT, Class 50, M, G, and A

- [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 60 minutes after application with latex paint or primer for bead size 1/4", temperature min 65°F & humidity min 50%. Otherwise, sealant should not be painted for 2 hours. Allow to dry 24 hours if using oil-based paints, using latex primer first and test on an inconspicuous area for best results. Apply paint with reduced applicator pressure to avoid disturbing the caulk. Clean-up with a damp, disposable cloth; do not rinse.
- [3] Sealant 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 and wash hands after use.

Surface Preparation:

- Surfaces must be clean, dry, 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 to. Cleaning of surfaces should be done within 1 to 2 hours before sealant is to be applied, to allow surfaces to dry.
- 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.
- Use backer rod for gaps deeper than 3/8" (9.5 mm). 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 when temperatures are above 40°F (4°C).
- 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. In 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), it can create a waterproofing effect of a substrate when the substrate is wet. See comment 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 $72 \pm 4^{\circ}\text{F}$ ($22 \pm 2^{\circ}\text{C}$) 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 vinyl trimethoxysilane. 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**

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

DISCLAIMER

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