



Tub & Tile Silicone 1 Sealant

DESCRIPTION

GE branded Tub and Tile Silicone 1 is a 100% silicone sealant ideal for areas susceptible to moisture such as sinks, tubs, showers, fixtures, countertops, backsplashes, and other plumbing projects. Tub and Tile Silicone 1 offers permanent flexibility and strong adhesion, and it's designed to be resistant to shrinking and cracking. Plus, Tub and Tile Silicone 1 sealant resists mold and mildew growth, to prevent unsightly stains, and is backed by a mold-free product protection for seven years.

Available as:

Item #	Country	Package	Size	Color
2749485	USA	Plastic cartridge	10.1 fl. oz. (298 ml)	White
2749484	USA	Plastic cartridge	10.1 fl. oz. (298 ml)	Clear
2769720	Canada	Plastic cartridge	10.1 fl. oz. (298 ml)	White
2769719	Canada	Plastic cartridge	10.1 fl. oz. (298 ml)	Clear

FEATURES & BENEFITS

- 100% silicone formula offers protection against water damage and is same-day water-ready ^[1]
- 7-Year Mold-Free Product Protection: cured sealant is resistant to stain-causing mold and mildew growth ^[2]
- Excellent flexibility and strong adhesion: provides a flexible, durable seal with strong adhesion to many common surfaces ^[3]
- Shrink and Crack proof: withstands extreme expansion and contraction associated with temperature fluctuations
- Meets ASTM C-920, Class 25
- Lifetime guarantee
- Non-paintable

RECOMMENDED FOR

Tub and Tile Silicone 1 sealant may be used on common kitchen and bath materials including most metals ^[4], plastics and woods, glass, drywall, plaster, granite ^[4], cultured marble ^[4], ceramic and porcelain tile, natural stone ^[4], cement board, composites, Formica, fiberglass, aluminum, and painted surfaces.

LIMITATIONS

Should not be considered:

- Where painting of sealant is needed
- For use underwater or in other applications where the product will be in continuous contact with water
- For use in aquariums
- For use under shower door tracks, or as a spackling compound
- For use on porous materials ^[4] such as concrete, limestone, and sandstone
- On frozen or contaminated surfaces
- Under exceedingly hot or cold conditions
- For structural repairs
- On excessively basic or acidic substrates
- For use on galvanized surfaces, some metal finishes ^[4], or special coatings, such as mirrors, without approval of the article's manufacturer

COVERAGE

For a 10.1 fl. oz. (298 ml) cartridge:

- A 3/16" (5 mm) bead extrudes approx. 51 ft. (15.5 m)
- A 3/8" (9.5 mm) bead extrudes approx. 13.7 ft. (4.2 m)



Technical Data Sheet

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TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Colors:</u>	White, Clear/colorless**	<u>Application Temperature:</u>	Surface and ambient temperatures must be above 32°F (0°C) and below 120°F (49°C)
<u>Appearance:</u>	Non-slumping paste	<u>Odor:</u>	Acetic acid/ Vinegar
<u>Base:</u>	Acetoxy Silicone	<u>Tooling / Open Time:</u>	5-10 minutes*
<u>VOC Content:</u>	2.3% by weight CARB 23 g/l SCAQMD rule 1168	<u>Skin Time / Tack Free:</u>	30 minutes*
<u>Shelf Life:</u>	24 months from date of manufacture (unopened) Use by date is printed on cartridge	<u>Cure Time:</u>	24 hours*
		<u>Clean Up:</u>	Clean uncured sealant residue immediately using mineral spirits. Cut or scrape away cured sealant using a sharp-edged tool.

*At 73°F (23°C) and 50% relative humidity. Time is dependent on temperature, humidity, porosity of substrates and depth of sealant applied. Cure time is significantly increased in cold temperatures and/or low humidity conditions.

**Clear/colorless is not descriptive of sealant transparency. Thickness of applied bead will impact clarity of the cured product.

Typical Cured Performance Properties

<u>Colors:</u>	White, Clear/colorless**	<u>Service Temperature:</u>	-60°F to 400°F (-51°C to 204°C)
<u>Cured form:</u>	Non-flammable, rubbery solid	<u>Shore A Hardness:</u>	18 ASTM D2240
<u>Water Resistant:</u>	Yes, 12-hour water ready ^[1]	<u>Elongation at Break:</u>	> 328% ASTM D412
<u>Paintable:</u>	No	<u>Tensile Strength at Break:</u>	> 213 psi ASTM D412
<u>Movement Capability:</u>	± 25% ASTM C719		
<u>Specifications:</u>	Meets the performance requirements of: ASTM C-920, Type-S, Grade NS, Class 25, Use NT test requirements		

[1] Exposure to water possible in 12 hours with bead size max ¼" (6.3 mm), temperature min 65°F (18.3°C) and humidity min 50%. Otherwise, sealant should not be exposed to water for 24 hours. Do not touch or clean sealant for 24 hours, or until fully cured.

[2] Fully 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 on surfaces.

[3] Based on ASTM C-920, TYPE-S, NS, CLASS 25 analysis, product can span gaps of up to 5/8" x 5/8" with over 350% elongation and 25% joint movement.

[4] Test on an inconspicuous area on metal finishes, concrete, and natural stone surfaces, as some blemishing may occur during cure.



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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:

- The temperature of the product, any surfaces, and the working area must be above 32°F (0°C). For best performance, apply sealant at 70°F (21°C). It is recommended to store product at room temperature at least 24 hours before use during extreme cold weather conditions.
- Check "Use By" date on product container. If product is expired, do not use.
- All surfaces, including new construction, must be clean, dry, and sound prior to application of the sealant. All contaminants, impurities, or other adhesion inhibitors (such as old sealants, dirt, oils, soap residue, and other surface treatments, etc.) must be removed from surfaces to which the sealant is intended to adhere to. Surface preparation should be completed on the same day product is being applied, preferably within 1 – 2 hours before sealant is to be applied, to allow surfaces to dry.

If existing UNCURED sealant needs to be removed:

Remove (scrape, wipe, dig out, etc.) uncured sealant and then scrub the area with isopropyl alcohol (IPA)[†] to remove any remaining oily residue.

If existing CURED / OLD sealant needs to be removed:

Remove as much as possible by cutting/peeling/scraping excess caulk from the surface.

For ceramic tile, marble, Formica®, fiberglass, etc.: use 100 percent mineral spirits (turpentine)[†] and a non-abrasive scouring pad. Test mineral spirits[†] on a hidden area of the surface to ensure discoloration will not occur. If discoloration does occur, contact the manufacturer of the surface for further assistance.

For glass surfaces: carefully use a razor blade within a holder to remove as much as possible, then apply mineral spirits[†]. Remove excess with a towel or other suitable cleaning utensil that will not mark the surface (such as a nonabrasive pad).

For hard plastics or painted surfaces: use rubbing alcohol[†] and a soft cloth. Do not use mineral spirits[†].

For porous/rough surfaces (concrete, brick, wood, wallpaper): remove as much of the sealant as possible (same as smooth surface). If necessary, use a wire brush in conjunction with mineral spirits[†]. We do not recommend use of a wire brush to remove sealant from wood surfaces, as doing so could damage the wood. Also, mineral spirits[†] should not be used if wood has any type of finish on it. Test solvent on a hidden area before applying.

Special notes about silicone sealant: there is no substance that will dissolve silicone. If you are reapplying silicone to the area, remove the old sealant, and then clean the area as detailed below. If mold or mildew is present, apply rubbing alcohol[†]. Let the area dry before reapplying silicone.

- Surfaces which sealant is to be applied on need to be prepared properly. The following are guidelines for preparing a variety of surfaces:

Concrete, masonry, and stone: use a wire brush to remove old caulk/sealant, dirt, dust, and loose particles. All contaminants and impurities must be cleaned off, such as concrete form release agents, water repellents, and other surface treatments and protective coatings.

Porous surfaces: use sandpaper or a wire brush where necessary to provide a sound, clean surface. Since porous materials can absorb and retain moisture, it is important to confirm that substrates are dry prior to application of sealant.

Metal, glass, and plastic: clean surface with a solvent such as mineral spirits[†] or a lacquer thinner[†]. When using solvents, always wipe the surface dry with a clean cloth or lintless paper towels. Never allow a solvent to air dry or evaporate without wiping. Isopropyl alcohol (IPA)[†] is a commonly used solvent that has shown to be effective with most non-porous substrates.

Architectural coatings, paints, and plastics: Clean with a solvent[†] approved by the manufacturer of the product, or which does not harm or alter the finish.

Note: cleaning surfaces with detergent or soap and water is not recommended as silicone will not adhere to surfaces with any soap scum/residue present.

- Some materials, such as concrete, soft woods, stone, specially treated metals, plastics, or other man-made materials, might have unpredictable surface characteristics that may affect adhesion properties. Therefore, we recommend testing for adhesion by applying the caulk/sealant to a small area before proceeding with an entire job.
- Some materials may cause discoloration on the surface of sealant/substrate. Compatibility testing prior to use is recommended.
- Use backer rod for gaps larger than 3/8" D x 3/8" W (9.5mm x 9.5mm). Sealant beads should not be thicker than 1/2" (12.7mm) or thinner than 1/8" (3.2 mm), using a width-to-depth ratio of 2:1.

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 (see Tooling / Open time).



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DIRECTIONS

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 5–10 minutes of application. Tool or strike the sealant with a clean and dry gloved finger or caulk finishing tool, applying light pressure to spread the material against the joint surfaces to ensure a void-free application. Do not over tool or tool too thin. Doing so will have a negative impact on sealant integrity and performance. Sealant skins over in approximately 30 minutes, depending on humidity and temperature.
- When tooling, use care not to spread the sealant over the face of the substrates adjacent to the joint or masking as Tub & Tile Silicone 1 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, 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.
- In near-confined spaces, which limit overall access to the atmosphere, sealant will cure only from that surface which has access to the atmosphere. Do not encapsulate sealant between two non-porous substrates.

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.
- If Tub & Tile Silicone 1 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 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% at an air temperature of 73°F (23°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.
- Users must evaluate GE branded products and make their own determination as to fitness of use in their specific application. It is the user's responsibility to test substrate compatibility, and adhesion of the cured sealant on a test joint before applying to the entire project.
- In addition to the guidelines provided in this datasheet, Henkel Corporation recommends designers and users of Tub & Tile Silicone 1 Sealant familiarize themselves with the latest editions of the following industry guidelines and best practices:
 - ASTM C1193 Standard Guide for Use of Joint Sealants.

Clean up:

Clean uncured sealant residue immediately using mineral spirits[†] or paint thinner[†]. Cut or scrape away cured sealant using a sharp-edged tool. For removal from specific surfaces, refer to section on "Surface Preparation" for additional information.

STORAGE & DISPOSAL

NOT DAMAGED BY FREEZING. Store unopened containers in a cool, dry, well-ventilated area away from heat, sparks, 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. Keep container tightly closed until ready for use. Use an approved hazardous waste facility for disposal. Hardened material may be disposed of in the trash.

[†] Mineral spirits and alcohols are flammable and should be used away from sparks, flames, and other ignition sources. Only use solvents in a well-ventilated area and follow all safety precautions and instructions listed on the product label or as otherwise provided by the manufacturer.



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LABEL PRECAUTIONS

WARNING! UNCURED SEALANT CAUSES SKIN, EYE, AND RESPIRATORY TRACT IRRITATION.

CAUTION! Contains polydimethylsiloxane and acetoxysilanes. Acetic acid is released during application and cure, which has a vinegar-like odor, and may cause dizziness, headache, or nausea. Avoid breathing vapors and use in a well-ventilated area. Prolonged or repeated contact with uncured product causes eye, skin, and respiratory irritation. Do not get in eyes, on skin, or clothing. Gloves are recommended to prevent skin contact. Wash hands after use. Remove contact lenses before using. Wear safety glasses. Use with adequate ventilation. Do not swallow.

FIRST AID: For eye contact flush immediately with water for 15 minutes. Call a physician if irritation develops and persists. For skin contact, wipe off with paper towel or cloth. Wash with water and soap immediately. If affected by inhalation, move to fresh air and get medical attention if symptoms develop or persist. 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.

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

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