



Technical Data Sheet

Revision: June 15, 2023
Supersedes: New
Ref. #: 814559

Silicone 2 Glue



DESCRIPTION

GE branded Silicone 2 Glue is a 100% silicone adhesive ideal for both household and craft applications. This glue may be used indoors or outdoors to create water resistant, permanently flexible bonds that can resist impact and extreme temperatures while remaining shrink-proof and crack-proof. Silicone 2 Glue is low in odor and dries clear, making it an excellent choice for a wide range of projects.

Available as:

Item #	Package	Size	Color
2823396	Squeeze tube	2.8 fl. oz. (82.8 ml)	Clear

FEATURES & BENEFITS

- Flexible adhesion for interior and exterior projects
- Exposure to water in as little as 30 minutes ^[1]
- Remains permanently flexible and will not shrink or crack when exposed to harsh conditions; freeze and sun proof
- Useful for application on horizontal and vertical surfaces
- Non-paintable

RECOMMENDED FOR

This glue adheres to most metals, plastics, and woods, glass, ceramic and porcelain, concrete and masonry surfaces, fiberglass, rubber, and painted surfaces.

LIMITATIONS

Should not be considered for:

- Areas where painting of sealant is needed
- Underwater use or in other applications where the product will be in continuous contact with water
- Use in aquariums
- Use in food contact applications
- Use under shower door tracks, or as a spackling compound
- Use on porous materials ^[2] such as concrete, limestone, and sandstone
- On wet, damp, 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 ^[2], or special coatings, such as mirrors, without approval of the article's manufacturer

[1] Exposure to water possible in 30 minutes with bead size max 3/16" (4.8 mm), temperature min 65°F (18.3°C) and humidity min 50%. Otherwise, glue should not be exposed to water for 8 hours. Do not touch or clean for 24 hours, or until glue is fully cured.

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

COVERAGE

For a 2.8 fl. oz. (82.8 ml) squeeze tube:

- A 3/16" (5 mm) bead extrudes approx. 13 ft. (4 m)
- A 3/8" (9.5 mm) bead extrudes approx. 3.7 ft. (1.1 m)

Note: Yields shown are based on theoretical calculations, for comparison purposes, and will vary depending on ambient conditions and particular application conditions and particular application



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TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Colors:</u>	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>	Light alcohol
<u>Base:</u>	Neutral cure Silicone	<u>Tooling / Open Time:</u>	5-10 minutes*
<u>VOC Content:</u>	3% by weight CARB 30 g/l SCAQMD rule 1168	<u>Skin Time / Tack Free:</u>	30 minutes*
<u>Shelf Life:</u>	18 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 thickness of applied glue. Cure time is significantly increased in cold temperatures and/or low humidity conditions.

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

Typical Cured Performance Properties

<u>Colors:</u>	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>	15 ASTM D2240
<u>Water Resistant:</u>	Yes, 30-minute water ready ^[1]	<u>Elongation at Break:</u>	347% ASTM D412
<u>Paintable:</u>	No	<u>Tensile Strength at Break:</u>	145 psi ASTM D412

DIRECTIONS

Tools Typically Required:

Utility knife (to cut nozzle opening)

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 expired product is applied, the glue may have difficulty curing, or may not cure at all, and may need to be removed. See instructions on removal.
- All surfaces must be clean, dry, and sound prior to application of the glue. All contaminants, impurities, or other adhesion inhibitors (such as old adhesive, dirt, oils, soap residue, and other surface treatments, etc.) must be removed from surfaces to which the glue is intended to adhere to. Surface preparation should be completed on the same day product is being applied, preferably within 1 – 2 hours before glue is to be applied, to allow surfaces to dry.

If existing UNCURED glue needs to be removed:

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



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DIRECTIONS

If existing CURED / OLD glue needs to be removed:

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

For ceramic or porcelain tile, 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 glue 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 glue 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 glue: there is no substance that will dissolve silicone. If you are reapplying silicone to the area, remove the old silicone, and then clean the area as detailed below.

- Surfaces which glue 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. 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 glue/substrate. Compatibility testing prior to use is recommended.

Masking: The use of masking tape is recommended, where appropriate, to ensure a neat job and to protect adjoining surfaces from over-application of glue. Masking tape should be removed immediately after applying the glue and before the glue begins to skin over.

Application:

- Remove cap and cut nozzle to obtain desired bead size.
- Apply glue to one surface in a zigzag or "X" pattern, where space allows.
- Join parts together and wipe away excess glue with mineral spirits.
- Tape, brace, or clamp as needed until glue dries, typically within 24 hours.

NOTE:

- Some materials that bleed plasticizers or oils can cause a discoloration. When applying silicone glue to items such as rubberized surfaces, bituminous based materials, butyl or oil-based products, oily woods, tapes, etc., compatibility testing prior to use is recommended.
- If Silicone 2 Glue is applied when the temperature is below 32°F (0°C) or if frost or moisture is present on the surfaces to be glued, the rate of cure will slow. For standard cure speed, apply in temperatures above 40°F (4°C).
- 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 product on a test surface before applying to the entire project.

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.

[†]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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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 $72 \pm 4^{\circ}\text{F}$ ($22 \pm 2^{\circ}\text{C}$) 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. 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.


LABEL PRECAUTIONS

WARNING! UNCURED PRODUCT MAY IRRITATE EYES, SKIN, AND RESPIRATORY TRACT.

CAUTION! Contains hexamethyldisilazane, methyltrimethoxysilane, and petroleum distillates. Methanol and ammonia are released during application and cure, which may affect the nervous system causing dizziness, headache, or nausea. Prolonged or repeated skin contact with uncured product may cause irritation. Do not get in eyes on skin or clothing. Gloves are recommended to prevent skin contact. 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.

 **WARNING:** Reproductive Harm – www.P65Warnings.ca.gov

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

DISCLAIMER

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