



## POLYSEAMSEAL® 100% Silicone Sealant

### DESCRIPTION

LOCTITE® POLYSEAMSEAL® 100% Silicone Sealant is a 100% silicone formulation that creates a tough, watertight, mildew resistant [2] seal. It makes fast work of sealing your kitchen and bath and has a fast-dry system that withstands water contact only 2 hours [1] after application. Polyseamseal 100% Silicone withstands temperature extremes from -65°F to 300°F making it ideal for Heating and Cooling (HVAC) applications and is highly resistant to ultraviolet light and other environmental elements. It forms a weatherproof bond to non-porous materials like glass, ceramics, aluminum, primed steel, and some plastics.

#### Available as:

Item #	Package	Size	Color
1508974	Plastic cartridge	10 oz	Clear
1508975	Plastic cartridge	10 oz	White

### FEATURES & BENEFITS

- Fast dry silicone system can be exposed to water in 2 hours [1]
- Contains mildewcide to help resist stain-causing mold and mildew growth [2]
- Water resistant and ideal for humid or steamy areas
- Sealant will not crack, peel, or shrink

### RECOMMENDED FOR

Sealing around bathtubs, sinks, shower stalls, tiles, and plumbing fixtures. Excellent adhesion to ceramic, porcelain, glass, fiberglass composites, enamel, aluminum, stainless steel, wood, and wallboard.

### 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 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, and some metal finishes [3] [4], or special coatings, such as mirrors, without approval of the article's manufacturer

### COVERAGE

#### For a 10 fl. oz. (298 mL) cartridge:

- A 3/16" (5 mm) bead extrudes approx. 51 ft. (15.5 m)
- A 1/4" (6 mm) bead extrudes approx. 31 ft. (9.5 m)

[1] Exposure to water possible in 2 hours with bead size max 3/32" (2.5 mm), temperature min 73°F (23°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] May cause oxidation of certain metals such as copper, brass, or zinc

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

† 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.

## TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	White, clear/colorless**	<u>Application Temperature:</u>	Apply at temperatures between 40°F (5°C) and 120°F (49°C)
<u>Appearance:</u>	Lump-free paste	<u>Odor:</u>	Acetic Acid / Vinegar
<u>Base:</u>	Acetoxy Silicone	<u>Tooling / Open Time:</u>	5 - 10 minutes*
<u>Specific Gravity:</u>	1.01 at 68°F (20°C)	<u>Skin Time / Tack Free:</u>	30 minutes*
<u>Flash Point:</u>	> 199.94°F (> 93.3°C)	<u>Cure Time:</u>	2 hours*[1] (for a 2.5 mm depth of sealant)
<u>VOC Content:</u>	3% by weight      CARB 30 g/l                      SCAQMD rule 1168	<u>Clean Up:</u>	Clean uncured sealant residue immediately using mineral spirits. Cut or scrape away cured sealant using a sharp-edged tool.
<u>Shelf Life:</u>	24 months from date of manufacture (unopened)		

Lot Code Explanation:

**YYDDD**

YY = Last two digits of year of manufacture  
DD = Day of year based on 365 days per year  
Example: 22060 = March 1, 2022 is the manufacture date

+ Cartridge: Stamped along bottom edge of cartridge

\* 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>Color:</u>	White, clear/colorless**	<u>Service Temperature:</u>	-65°F (-53.8°C) to 300°F (148.8°C)
<u>Cured form:</u>	Non-flammable solid	<u>Tensile Strength at Break:</u>	≥ 116 psi (0.8 N/mm <sup>2</sup> ) ASTM 708
<u>Joint Movement:</u>	< 25% total movement	<u>Elongation at Break:</u>	≥ 275% @ 7 days ASTM 708
<u>Paintable:</u>	No	<u>Shore A Hardness:</u>	≥ 14 @ 7 days
<u>Water Resistance:</u>	Yes [1]		

## DIRECTIONS

**Tools Typically Required:**

Utility knife, caulking gun, tool to puncture inside seal of cartridge, and tooling device

**Safety Precautions:**

Wear gloves and wash hands after use. Apply and cure in a well-ventilated area

**Surface Preparation:**

The temperature of the product, any surfaces, and the working area must be above 40°F (5°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.

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 desired, paint area before applying sealant, as silicone is not paintable (see NOTE below). Mask both sides of the joint. Cut the tip off the cartridge at a 45° angle to desired bead size (minimum of 1/8" recommended).

**NOTE:** Polyseamseal Silicone is not paintable. Areas that require painting should be completed at least 2 – 3 days prior to final prep.

**Application:**

Using a caulking gun, apply sealant with steady pressure forcing the sealant into the joint. Tool bead immediately. Do not use in joints deeper than 1/2" (12 mm) without the use of a backer rod. Remove masking tape immediately after tooling and wipe excess from hands and tools before washing. Avoid contaminating any surfaces with silicone that may require painting.

**Clean-up:**

Clean uncured sealant residue immediately using mineral spirits<sup>†</sup> or paint thinner<sup>†</sup>. Cut or scrape away cured sealant using a sharp-edged tool.

## STORAGE & DISPOSAL

**NOT DAMAGED BY FREEZING.** Store unopened containers under standard conditions in a cool, dry, well-ventilated area away from heat, sparks, and direct sunshine. 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 SEALANT CAUSES SKIN, EYE, AND RESPIRATORY TRACT IRRITATION.**

**CAUTION!** Contains methyltriacetoxysilane, acetic acid, and petroleum distillates. Acetic acid is released during application and cure, which 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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Henkel Corporation - Professional & Consumer Adhesives Headquarters - Rocky Hill, CT 06067

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