



# Sil-Poxy®

## Silicone Rubber Adhesive

### PRODUCT OVERVIEW

Sil-Poxy® is a one component adhesive made specifically for bonding RTV silicone rubber to silicone rubber and other substrates including some plastics (urethane), plasters/ceramics, fabrics, etc. Sil-Poxy® will work with tin- or platinum-cure silicones and provides a strong, flexible bond between silicone parts with high elongation. Can be colored with Silc-Pig® silicone pigments. Cured adhesive resists weathering, moisture, UV and high temperatures.

Sil-Poxy® can be used repairing torn silicone rubber molds. Other applications include bonding silicone for prosthetics and animatronics.

### TECHNICAL OVERVIEW

**Key Values:** ~One Component ~Working Time: 5 minutes ~Cure Time: 12 minutes ~Color: Translucent

#### Viscosity

Thick-Paste

#### G/CC

1.12

#### Elongation At Break

750 %

#### Tensile Strength

750 psi

Tear Strength – 100 ppi

Peel Strength – 100 ppi

Durometer – Shore 40A

Service Temperature Range; -50°F (-41°C) to 400°F (204°C)

**Note:** tests done bonding silicone to silicone

### *Preparation*

### *Application*

### *Accelerating*

Materials should be stored and used at room temperature (72° F / 22° C). Storing in a warm environment will reduce the shelf life of unused material. This product has a limited shelf life and should be used as soon as possible. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk.

**Because no two applications are quite the same, a small test application to determine suitability for your project is recommended if performance of this material is in question.**

A clean, dry surface is essential for successful adhesive bonding. If possible, abrade surface and follow with solvent wipe before applying.

**Dispensing** – squeeze tube, taking care not allow air to enter tube before replacing cap. Unused product in tube exposed to air will cure quickly.

**Apply adhesive** to surface and mate parts. Material will begin to cure in 15 minutes. Pieces can be handled after 1 hour. Full cure is attained after 24 hours. Warmer temperatures (and higher humidity) will result in a faster cure. Lower temperature will retard cure.

***Safety First!***

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*The Material Safety Data Sheet (MSDS) for this or any Smooth-On product should be read prior to use and is available upon request from Smooth-On. All Smooth-On products are safe to use if directions are read and followed carefully.*

***Be Careful!*** Use only with adequate ventilation. This product is irritating to the eyes and skin. If contaminated, flush eyes with water for 15 minutes and seek medical attention. Remove from skin with waterless hand cleaner then soap and water. Refer to MSDS. Vapors may irritate the respiratory tract. If contaminated, flush eyes with water for 15 minutes and seek medical attention. Remove from skin with soap and water. Use only with adequate ventilation.

***Important!*** The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding this accuracy, the results to be obtained from the use thereof, or that any such will not infringe a patent. User shall determine beforehand the suitability of this product for the intended application and assume all risk and liability in connection therewith.

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**Feel free to call or fax us any time with your questions.**

Toll-free: (800) 762-0744    Outside The U.S.: (610) 252-5800

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Or visit the Smooth-On Website at: [www.smooth-on.com](http://www.smooth-on.com)