# Sil-Poxy®

## Silicone Rubber Adhesive

www.smooth-on.com

## 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

**Mixed Viscosity**, Thick-paste

**Specific Gravity,** g/cc: 1.12

**Working Time:** 5 minutes (73°F/23°C)

**Cure time:** 12 minutes (73°F/23°C)

**Color:** Translucent

**Shore A Hardness:** 40

**Tensile Strength,** psi: 750

**Elongation @ Break:** 750%

**Tear Strength:** 100 ppi

**Peel Strength**: 100 ppi

**Temperature Range**: -50°F (-41°C) to 400°F (204°C)

**Note:** Tests done bonding silicone to silicone

* All values measured after 7 days at 73°F/23°C

## PROCESSING RECOMMENDATIONS

### PREPARATION...*Safety* - Use in a properly ventilated area ("room size" ventilation). Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk.

**Store and use material at room temperature (73°F/23°C).** This product has a limited shelf life and should be used as soon as possible.

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

**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.**

### DISPENSING & 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.

***Applying -*** 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!

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.

**Keep Out of Reach of Children**

***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.

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


***Call Us Anytime With Questions About Your Application***

Toll-free: **(800) 762-0744** Fax: **(610) 252-6200**


The new **www.smooth-on.com** is loaded with information about mold making, casting and more.