

# Silicone Thinner®

## Silicone Rubber Thinning Fluid



www.smooth-on.com

**Silicone Thinner®** is a non-reactive silicone fluid that will lower the mixed viscosity of tin cure (condensation) or platinum cure (addition) silicone rubber products.

### **Silicone Thinner® offers the following advantages:**

- A lower mixed viscosity (A+B) means that the rubber will de-air faster when vacuuming.
- Mixed rubber (A+B) will flow better over intricate model detail.
- Silicone Thinner® will lower the ultimate shore hardness (durometer) of cured silicone rubber.
- Pot life (working time) is increased in proportion to the amount of Silicone Thinner® used.

**Disadvantage:** Ultimate tear and tensile strength are reduced in proportion to the amount of Silicone Thinner® added, however knotty tear properties of the Mold Max® series rubbers are unaffected. The following test data is offered as an example of the effects of Silicone Thinner® on Mold Max® 30 silicone rubber (your results may vary):

Value	Mold Max® 30 0% Silicone Thinner*	Mold Max® 30 5% Silicone Thinner*	Mold Max® 30 10% Silicone Thinner*
Mixed Viscosity (A+B)	25,000 cps	19,000 cps	13,800 cps
Shore Hardness (after 7 days)	30 A	26 A	23 A
Tensile Strength (after 7 days)	400 psi	350 psi	330 psi
Tear Strength (Die B) (after 7 days)	130 pli	115 pli	110 pli

**Directions:** Materials should be stored and used in a warm environment (73° F / 23° C). This material 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.

**\*Silicone Thinner® is added as a percentage of the total Part A+Part B rubber system. An accurate gram scale must be used. Weigh out and pre-mix required amount of Silicone Thinner® with Part A of silicone rubber before adding Part B.** Mix all components thoroughly and vacuum as directed on mold rubber technical bulletin. ***It is not recommended to exceed 10% by weight of total system (A+B).***

**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.**

### **Safety First!**

The material safety data sheet (MSDS) for this or any Smooth-On product should be read before using and is available on request or on our website at [www.smooth-on.com](http://www.smooth-on.com). All Smooth-On products are safe to use if directions are read and followed carefully. **Keep Out of Reach Of Children.**  
**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 a copyright or patent. User shall determine suitability of the product for the intended application and assume all associated risks and liability.



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

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The new [www.smooth-on.com](http://www.smooth-on.com) is loaded with information about mold making, casting and more.