

SLIDE™ STD Liquid

Surface Tension Diffuser



www.smooth-on.com

PRODUCT OVERVIEW

SLIDE™ STD Liquid Surface Tension Diffuser is an additive for platinum cure silicone rubber that creates a cured silicone piece with **greatly reduced surface tension**. Cured silicone slides across itself and different surfaces. It is compatible with low viscosity Smooth-On platinum cure silicone such as Ecoflex™ 00-10, 00-20, 00-30 and Dragon Skin™ 20NV. SLIDE™ STD is added as a percentage of Part B. **Silicone surface must be exposed to air for 24 hours to bring out slide effect.**

Due to its ultra-low surface tension, SLIDE™ STD is ideal for creating silicone masks, etc. The surface of a silicone casting created using SLIDE™ STD is very low friction, allowing for ease of motion when cast silicone pieces need to glide over surfaces such as skin.

Important: SLIDE™ STD will significantly thicken higher viscosity silicones such as Dragon Skin™ 10 and other products. Cured material will still exhibit SLIDE effect.

Silicone will yellow over time. If yellowing is undesired, adding a Silc Pig™ silicone pigment to the liquid rubber prior to mixing will color the silicone.

Warning – Allergen; people who are allergic to durian, tree nuts and tree nut derivatives or musk thistle seed should avoid contact with this product and cured pieces which contain this product.

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. Wear vinyl gloves only. Latex gloves will inhibit the cure of the rubber. **Store and use material at room temperature (73°F/23°C).** Warmer temperatures will drastically reduce working time and cure time. Storing material at warmer temperatures will also reduce the usable shelf life of unused material. These products have a limited shelf life and should be used as soon as possible.

MEASURING & MIXING...

SLIDE™ STD is added by weight to Part B and should be thoroughly mixed into Part B before adding Part A. An accurate gram scale must be used. Calculate the correct amounts of Part A, Part B and SLIDE™ STD in advance.

1. Weigh out the required amount of Part B.
2. Weigh out and add up to 1.5% of SLIDE™ STD as a percentage of the Part B. Mix Part B and SLIDE™ STD thoroughly.
3. Weigh out and add the required amount of Part A.
4. Mix thoroughly, eliminating all color streaks from the mixture.
5. Pour mixture into new, clean mixing container and mix again.
6. Pour rubber into containment field or mold.

Low Surface Tension Properties - In order for SLIDE™ STD to exhibit its ultra-low surface tension properties, the silicone surface **must be exposed to air for at least 24 hours.** **Important:** Adding SLIDE™ STD will lengthen the cure time of a platinum silicone, material may require 16 - 24 hours for full cure. After material is fully cured, demold and position the casting in such a way that all surfaces come into contact with air. This will allow the material to develop a very low-friction surface.

Adhesion And Lamination - Once SLIDE™ STD has developed its ultra-low surface tension properties, other platinum silicones (Psycho Paint™, Dragon Skin™, Ecoflex™, etc.) **will not bond to a cured piece.** In order to bond another silicone to a casting made using SLIDE™ STD (painting with Psycho Paint™, for example) the new silicone **must be applied before the silicone with SLIDE™ STD added develops its low-friction surface.**

Use In A Mold Material - Silicone molds created with SLIDE™ STD are adhesive when casting urethane resins and other materials. If you use SLIDE™ STD in your mold material, applying a release is necessary before casting.

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. All Smooth-On products are safe to use if directions are read and followed carefully. **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.

Toll-free: (800) 381-1733 Fax: (610) 252-6200

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

051524 - JR