Rubber Glass® II

Water-Clear Silicone Rubber Compound

www.smooth-on.com

PRODUCT OVERVIEW

Rubber Glass® II is a tin-catalyzed silicone rubber product developed specifically for special effects and display applications. Two liquids (3 Parts A + 1 Part B) are mixed together and poured into a container. The mixture cures overnight to a solid water clear rubber that can then be easily broken or "crumbled" into pieces that look exactly like broken glass, ice or diamonds. Vibrant colors are possible by adding Silc-Pig® liquid color pigments.

Rubber Glass® II can be used to create a variety of special effects (i.e. simulated broken glass where human contact is required) and model effects (i.e. simulated ice or water). It can also be used for electronic encapsulation applications.

PROCESSING RECOMMENDATIONS

MEASURING & MIXING...

Materials should be stored and used in a warm environment (73°F/23°C). This product has a limited shelf life and should be use as soon as possible. Mixing containers and stirring sticks should be made of plastic and must be clean and dry. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk.

Dispense Three Parts A and One Part B by weight or volume into mixing container. Mix thoroughly for at least three minutes, making absolutely sure that you scrape the sides and bottom of your container several times.

Do not whip or agitate material as this may cause air bubbles. If completely bubble free castings are required, vacuum degassing material prior to pouring will eliminate all bubbles.

TECHNICAL OVERVIEW

Mix Ratio: 3A : 1B by volume	
Mixed Viscosity, cps: 1200	(ASTM D-2393)
Specific Volume, cu. in./lb.: 28.6	
Pot Life: 120 minutes (73°F/23°C)	(ASTM D-2471)
Cure time: 16 hrs (73°F/23°C)	
Color: Clear	
Shore A Hardness: 20	(ASTM D-2240)
Dielectric Strength, volts/mil**:** 319	
Dielectric Constant, 100 Hz: 3.17	

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

POURING & CURING...

Pouring **-** Pour mixture into a plastic container or mold (ice cube trays or plastic cups made of polyethylene work well). If pouring into or over other surfaces, be aware that cure inhibition is possible (see section below – "**Cure Inhibition**"). If casting into silicone molds, a release agent (Ease Release® 200 available from Smooth-On) is required.

Curing - Let cure overnight at room temperature (73°F/23°C). Colder temperatures will slow the curing process. Material castings thicker than 2" (5 cm) may take longer to cure. Material is cloudy when first mixed but clears during cure.

Accel-T® Silicone Rubber Accelerator will accelerate the cure time of Rubber Glass® II. **Note:** working time is reduced in proportion to the amount of Accel-T® added.

See the technical bulletins for Accel-T® (available from Smooth-On or your Smooth-On distributor) for exact mix ratios and cure times.

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. Contact with skin and eyes may cause irritation. Flush eyes with soap and water for 15 minutes and seek immediate medical attention. Remove from skin with waterless hand cleaner followed by 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.

INHIBITION & PERFORMANCE...

Cure Inhibition **-** If compatibility between the rubber and the surface that you are pouring rubber over is a concern, a small scale test is recommended. Materials found to cause cure inhibition include sulfur-based modeling clays and latex rubber. If pouring Rubber Glass® II over a model surface that you think might cause inhibition, apply a "barrier coat" of clear acrylic lacquer sprayed directly over all surfaces that will come in contact with the Rubber Glass® II is usually effective.

Adhesion: Rubber Glass® II may stick to some surfaces such as glass. A coating of Ease Release® 200 will facilitate release from any surface.

Material Performance - Once material has fully cured it can be removed from the container or mold. Cured Rubber Glass® II is now ready to be displayed as is or broken/crumbled for your specific application.

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.

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.