

Soma Foama® 15 and 25

Flexible Platinum Silicone Foams



www.smooth-on.com

PRODUCT OVERVIEW

Soma Foama® is a soft, two-component platinum silicone flexible foam that is versatile and easy to use.

Soma Foama® 15 expands **4 times** its original volume and develops a uniform 15 lb./cu. ft. cell structure (240 kg/m³). **Soma Foama® 25** is a higher density foam vs. original Soma Foama® 15 which expands **2-3 times** its original volume and develops a uniform 25 lb./cu. ft. cell structure (400 kg/m³).

Vibrant colors can be achieved by adding Silc-Pig® silicone color pigments. Cured foam is high heat resistance (will resist up to 350°F/176°C), water resistant, UV resistant and resists oxidation and ozone degradation.

Soma Foama® can be used for a variety of industrial and special effects applications including making foam filled appliances, padding/seat cushioning, orthotics/orthopedics, potting and encapsulation of electrical circuits and vibration dampening.

TECHNICAL OVERVIEW

	A:B Mix Ratio by Volume	A:B Mix Ratio by Weight	Mixed Viscosity (cps) (ASTM D-2393)	Specific Gravity (g/cc) (ASTM D-1475)	Specific Volume (cu. in./lb.)	Color	Pot Life (Cream Time) (ASTM D-2471)	Handling Strength	Cure Time	Approx. Volumetric Expansion	Lbs. / Cu. Foot = Kgs. / Cu. Meter
Soma Foama® 15	2:1 pbv	100:47pbw	10,000	0.24	115	White	30 secs	20 mins	1 hr	4 times	15 lb/ft ³ = 240 kg/m ³
Soma Foama® 25	1:1 pbv	1:1 pbw	10,000	0.40	69	White	90 secs	20 mins	1 hr	2-3 times	25 lb/ft ³ = 400 kg/m ³

PROCESSING RECOMMENDATIONS

PREPARATION...

Store and use at room temperature (73°F/23°C). These products have a limited shelf life and should be used as soon as possible. Good room size ventilation is essential. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk.

Cure Inhibition - Addition cured silicones may be inhibited by certain contaminants such as sulfur, polyesters, certain wood surfaces, epoxies, urethane rubber and tin catalyzed silicones resulting in tackiness at the pattern interface or a total lack of cure throughout the mold. If compatibility between the rubber and the surface is a concern, a small-scale test is recommended. Apply a small amount of foam onto a non-critical area of the pattern. Inhibition has occurred if the material is gummy or uncured after the recommended cure time has passed. This product will not cure against tin-based silicone rubbers.

Applying A Release Agent - Soma Foama® will stick to some surfaces and a release agent may be necessary to facilitate demolding. When casting Soma Foama® into or over other platinum silicones, apply Ease Release® 200 prior to applying foam. ~IMPORTANT: To ensure thorough coverage, lightly brush the release agent with a soft brush over all surfaces. Let the release agent dry for 15 minutes.

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 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. 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.

Warning – a small amount of Hydrogen gas is released as part of the A:B reaction. Use only with adequate ventilation and do not breathe fumes. Also do not smoke or have other ignition sources in proximity to this product during mixing and pouring.

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.

MEASURING & MIXING...

Mixing - Mixing can be done by hand or using a drill and a mixer attachment, such as a turbine mixer. Dispense required amounts of Parts A and B into mixing container. If you are using Soma Foama® 15, mix for 20 seconds. If you are using Soma Foama® 25, mix for 60 seconds. Stir quickly and deliberately, making sure you scrape the sides and bottom of the mixing container several times. Be careful not to splash material out of the container. Remember, foam cures quickly. Do not delay between mixing and pouring. Elevated temperatures will result in a reduced pot life and cure time.

POURING, CURING & PERFORMANCE...

Warning - A small amount of Hydrogen gas is released as part of the A:B reaction. Use only with adequate ventilation and do not breathe fumes. Also do not smoke or have other ignition sources in proximity to this product during mixing and pouring.

Pouring - For best results, pour your mixture in a single spot at the lowest point of the containment field and let the mixture seek its own level.

Handling Strength is 20 minutes with full cure in 1 hour at room temperature. Foam color will darken over time. Adding Silc-Pig® silicone pigments will help stabilize color of cured foam. **To adhere Soma Foama® to other platinum silicones**, best adhesion is realized when poured against newly cured platinum silicone rubber.

Results May Vary: This material is subject to variables such as high or low environmental temperatures. A small test to determine how material performs for your application is recommended.

Improve Surface Finish and Minimize Voids With Back Pressure

Use a board that will completely cover the mold opening. Using a 3/4" (2 cm) drill bit, drill 3 holes in the board spaced a few inches / cm apart. Make sure that, when the board is placed over the mold opening, the holes are over the mold cavity and rising foam will be able to make it through. Apply Ease Release® 200 thoroughly too both sides of the board and into the drilled holes. Mix and pour foam into mold cavity and place board over mold opening. Hold board firmly in place. As foam rises in the mold cavity, some foam will grow out of the drilled holes. After the foam stops growing, you can let go of the board. Do not demold for at least 20 minutes. After 20 minutes, cut excess material that came through holes. Gently remove board and casting.



Call Us Anytime With Questions About Your Application

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