



# Soma Foama™ 15

Flexible Platinum Silicone Foam

## PRODUCT OVERVIEW

**Soma Foama™ 15** is a soft two-component platinum silicone flexible foam that is versatile and easy to use. Mixed 2 Parts A:1Part B by volume, foam can be poured into a mold or over other surfaces. Pot life (working time) is 50 seconds at room temperature (73°F / 23°C) and handling time is 20 minutes at room temperature and full cure is 1 hour. Foam expands 4 times its original volume and develops a uniform 15 lb./cu. ft. cell structure (240 kg/m<sup>3</sup>). 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. **Applications;** **Soma Foama™ 15** 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

<i>Product</i>	<i>Mixing Ratio</i>		<i>Pot Life</i>	<i>Color</i>	<i>Handling Strength</i>	<i>Full Cure</i>
<b>Soma Foama™ 15</b>	2A:1B by volume (100A : 47B by weight)		50 seconds	Off-White	20 minutes	1 hour
<i>Components</i>	<i>Color</i>	<i>Viscosity</i>	<i>S.G. g/cm<sup>3</sup></i>	<i>S.V. cu. in./lb.</i>	<i>Lbs./Cu. Ft. = Kg/Cu Meter</i>	
Mixed Part A + B	Off-White	10,000 cps	0.24	115	15 = 240	

### Applying a Release Agent

### Mixing

### Pouring

**Preparation** – Materials should be stored and used in a warm environment (72° F / 22° C). These products have a limited shelf life and should be used as soon as possible. Mixing tools and containers should be clean and made of metal, glass or plastic. **Mixing should be done in a well-ventilated area.** Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk. Some surfaces must be sealed. **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.**

**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 rubber 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™ 15** will not stick to most surfaces and release agent is not necessary to facilitate demolding for most applications. When casting **Soma Foama™ 15** 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.

## Mixing

## Pouring

## Curing

**Mixing** – Mixing can be done by hand or using a drill and a mixer attachment, such as a “squirrel” mixer. After dispensing required amounts of Parts A and B into mixing container, mix thoroughly for 30 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.

**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™ 15 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. For example, elevated temperatures will result in a reduced pot life and cure time. 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.

**Demold;** After 20 minutes, cut excess material that came through holes. Gently remove board and casting.

## Safety First!

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*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 breath 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.

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