

# EZ~Spray® FlexFoam

Sprayable Flexible Foam



www.smooth-on.com

## PRODUCT OVERVIEW

EZ~Spray® FlexFoam is a flexible polyurethane foam compound that can be conveniently sprayed using Smooth-On's EZ~Spray® Junior System. EZ~Spray® FlexFoam consists of two liquid components in an EZ~Spray® cartridge. When combined in a mixing ratio of one to one by volume, EZ~Spray® FlexFoam quickly cures to a solid, lightweight and durable 7 lb. (approx.) flexible foam, that can be used for a variety of special effects and industrial applications. Refer to Smooth-On's EZ~Spray® Junior manual and video before using.

## PROCESSING RECOMMENDATIONS

**PREPARATION...Safety** - 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. Environmental humidity should be as low as possible. Good room size ventilation is essential. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk. Spraying should be done in a well-ventilated area.

**Breathing protection:** Everyone in the spray area should wear an independent air supplied hood or NIOSH approved breathing mask.

**Do Not Attempt To Spray Rubber Or Plastic Without First Reading The EZ~Spray® Junior Manual!**

**Applying A Release Agent** - This foam is adhesive and will stick to almost any surface. A release agent is necessary to facilitate demolding. Ease Release 2831 (available from Smooth-On or your Smooth-On distributor) is made for releasing urethane foams from most surfaces.

**IMPORTANT:** Apply release agent to all surfaces that will contact the rubber. To ensure thorough coverage, lightly brush the release agent with a soft brush over all surfaces of the model. Follow with a light mist coating and 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.

**APPLYING, CURING & PERFORMANCE...**

### APPLYING, CURING & PERFORMANCE...

After material cartridge is loaded & prepared depress trigger and begin spraying.

**Spraying** - For best results, always spray in a waste bucket first to establish an appropriate product and air volume level. Spray onto model or into mold, applying a thin first coat, moving quickly. Wait two minutes between first and second coats. Heat from the first coat will speed the cure of the others. Spray bottom edges with many thin coats to avoid drips and voids. Work from bottom to top. Increase volume pressure for heavier coats. Consult EZ~Spray® Junior Video and Instruction Manual for more information.

**Curing** - EZ~Spray® FlexFoam will cure quickly and can be handled or demolded in about 15 minutes at room temperature depending on mass and configuration.

### TECHNICAL OVERVIEW

Mix Ratio: 1A:1B by volume

Mixed Viscosity, cps: 1000 (ASTM D-2393)

Specific Gravity, g/cc: 0.11 (ASTM D-1475)

Volumetric Yield, cu. in. /lb.: 252

Pot Life (Cream Time): 10 seconds (ASTM D-2471)

Tack-Free Time: 2 minutes

Handling Strength: 10 minutes

Demold Time: 15 minutes

Color: White

Lbs./Cubic Foot: 7 lb/ft<sup>3</sup>

Kgs./Cubic Meter: 110 kg/m<sup>3</sup>

Approx. Volumetric Expansion: 7 times

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

## **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.**

**Part A** contains methylene diphenyl diisocyanate. Vapors, which can be significant when prepolymer is heated or sprayed, may cause lung damage and sensitization. Use only with adequate ventilation. Contact with skin and eyes may cause severe irritation. Flush eyes with water for 15 minutes and get immediate medical attention. Remove from skin with soap and water.

**Part B** is irritating to the eyes and skin. If contaminated, flush eyes with water for 15 minutes and seek immediate medical attention. Remove from skin with soap and water. When mixing with Part A follow precautions for handling isocyanates. If machining cured EZ~Spray® FlexFoam, wear dust mask or other apparatus to prevent inhalation of residual particles.

**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.

**Performance & Storage** - Cured castings of EZ~Spray® FlexFoam are flexible and durable. They resist moisture, and can be primed/painted or bonded to other surfaces (any release agent must be removed). If machining cured EZ~Spray® FlexFoam, wear dust mask or other apparatus to prevent inhalation of residual particles. Unpainted castings will yellow over time—more quickly when exposed to ultra-violet light. Flexible foam pieces for display should be supported with a rigid support structure.



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

Toll-free: **(800) 762-0744** Fax: **(610) 252-6200**

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