

EZ~Spray® Foam

Sprayable Rigid Foam



www.smooth-on.com

PRODUCT OVERVIEW

EZ~Spray® Foam is a polyurethane foam compound that can be conveniently sprayed using Smooth-On's EZ~Spray® Junior System. Foam cures quickly to strong, lightweight and impact resistant 8 lb. rigid foam that can be used for a variety of applications including making lightweight castings. Foam can also be sprayed over certain rubber mold configurations as a mother mold material. For more information, refer to Smooth-On's EZ~Spray® Junior manual and video.

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.

TECHNICAL OVERVIEW

Mix Ratio: 1A:1B by volume

Mixed Viscosity, cps: 400 (ASTM D-2393)

Specific Gravity, g/cc: 0.128 (ASTM D-1475)

Volumetric Yield, cu. in. /lb.: 144

Pot Life (Cream Time): 13 seconds (ASTM D-2471)

Tack-Free Time: 2 minutes

Handling Strength: 10 minutes

Demold Time: 10 minutes

Color: Tan

Lbs./Cubic Foot: 8 lb/ft³

Kgs./Cubic Meter: 128 kg/m³

Approx. Volumetric Expansion: 7 times

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

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.

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® Foam, 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.

Curing - EZ~Spray Foam will harden immediately and can be handled or demolded in about 5 minutes depending on mass and configuration.

Performance - Cured castings of EZ~Spray® Foam are rigid and durable. They resist moisture, moderate heat, solvents, dilute acids and can be machined, primed/painted or bonded to other surfaces (any release agent must be removed). If machining cured EZ~Spray® Foam, wear dust mask or other apparatus to prevent inhalation of residual particles. Castings can be displayed outdoors after priming and painting. Unpainted castings will yellow over time—more quickly when exposed to ultra-violet light. Because no two applications are quite the same, a small test application to determine suitability is recommended if performance of this material is in question.



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.