



EZ~Spray® Plastic

New Formula - Sprayable Liquid Plastic

PRODUCT OVERVIEW

EZ~Spray Plastic® is an improved version of our original sprayable polyurethane plastic compound. With higher impact resistance, this new spray plastic was specifically formulated to be mixed and sprayed via Smooth-On's EZ~Spray® Jr. Spray System. **EZ~Spray Plastic®** is versatile and can be sprayed over a rubber mold to create "mother molds" or support shells. It can also be sprayed or meter mixed into rubber molds as a fast setting casting resin. Cured plastic is lightweight, tough and durable.

EZ~Spray Plastic® has a fast gel time for vertical surface application. Material cures in about 3 hours (depending on mass). Refer to the EZ~Spray® Machine Jr. Video Manual before spraying plastic.

TECHNICAL OVERVIEW

Key Values: ~**Mixing Ratio:** One to One by volume. ~**Color:** Off-White ~**Durometer:** 75D
~ **Pot Life:** 2 Seconds When Mixed ~ **Demold Time:** About 3 Hours (Depending on Mass)

Description: EZ~Spray® Plastic consists of two liquid components, Part A (Yellow Label) and Part B (Blue Label). When combined in a mixing ratio of one to one by volume, EZ~Spray® Plastic quickly cures to a solid and durable plastic.

S.G. g/cm³: 1.11 **S.V. cu. in./lb.:** 24.5 **Viscosity:** Variable

Ultimate Tensile Strength: 2,283 psi after 1 day---3,010 psi after 7 days **Shore D Hardness:** 75

Modulus: 48,509 psi after 1 day---63,630 after 7 days

Applying A Sealer

Applying A Release Agent

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

Preparation . . . Materials should be stored and used in a warm environment (72° F / 22° C). This product has a limited shelf life and should be use as soon as possible. Spraying should be done in a well-ventilated area.

Breathing protection: Anyone in the spray area should wear an independent air supplied hood or NIOSH approved breathing mask. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk. **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.**

Apply A Sealer – If spraying plastic over a porous surface, (gypsum plasters, concrete, wood, stone, etc.) a sealer must be applied to facilitate release followed by applying a release agent. **SuperSeal®** (available from Smooth-On) is a fast drying sealer suitable for sealing porous surfaces without interfering with surface detail. Shellac is suitable for rough contours and modeling clays that contain sulfur or moisture (water based). Non-Porous models made of metal, glass, acrylic, pvc, other hard plastics and sulfur-free clays require only a release agent which should be allowed to dry before applying the rubber.

Applying A Release Agent . . . A release agent is necessary to facilitate demolding when spraying into or over most surfaces. Use a release agent made specifically for mold making (Universal® Mold Release) available from Smooth-On or your Smooth-On distributor). A liberal coat of release agent should be applied onto all surfaces that will contact the plastic. **~IMPORTANT:** To ensure thorough coverage, lightly brush the release agent with a soft brush over all surfaces. Follow with a light mist coating and let the release agent dry for 30 minutes.

Spraying

Curing

Performance

Spraying. . . . For best results, always spray in a waste bucket first to purge any solvent in the spray machine lines. Spray on a thin first coat, moving quickly. Spray undercuts and recesses first. 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 the pressure for heavier coats and cut the tip to get a better spray pattern .

Curing . . . EZ~Spray® Plastic will gel immediately and can be demolded in about three hour depending on mass, configuration and ambient temperature.

Performance . . . Cured EZ~Spray® Plastic is semi-rigid and durable. Plastic resists 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® Plastic, 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 when exposed to ultra-violet light.

Safety First!

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The material safety data sheet (MSDS) for this or any Smooth-On product should be read before using and is available on request. All Smooth-On products are safe to use if directions are read and followed carefully. **Anyone in the spray area should wear a Niosh approved respirator or independent air supplied hood, gloves and safety glasses.**

Be careful. EZ~Spray® Plastic Part A (Yellow Label) contains methylene diphenyldiisocyanate. 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 (Blue Label) is irritating to the eyes and skin. Avoid prolonged or repeated skin contact. If contaminated, flush eyes with water for 15 minutes and get 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® Plastic, 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 a copyright or patent. User shall determine suitability of the product for the intended application and assume all associated risks and liability.

Call Us Anytime With Questions About Your Application.

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