



EZ~Spray™ Plastic

Sprayable Liquid Plastic

(Preliminary technical bulletin)

PRODUCT OVERVIEW

EZ~Spray Plastic™ is a new sprayable polyurethane plastic compound that was specifically formulated to be mixed and sprayed via an EZ~Spray machine. *EZ~Spray Plastic™* is versatile and can be sprayed over a rubber mold to create “mother molds” or support shells, sprayed over styrofoam as a coating or meter mixed into rubber molds as a fast setting casting resin. Cured plastic is lightweight, tough and durable.

EZ~Spray Plastic™ has an extremely fast gel time of about 2 seconds, which makes it suitable for vertical surface application. Material cures in about one hour (depending on mass). Refer to EZ~Spray Machine manual for details.

TECHNICAL OVERVIEW

Key Values: ~*Mixing Ratio:* One to One by volume. ~*Color:* Off-White ~*Durometer:* Shore 80D
~*Pot Life:* 2 Seconds When Mixed ~*Demold Time:* About 1 Hour (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.

COMPONENTS	VISCOSITY	S.G. g/cm ³	S.V. cu. in./lb.
Part A	240 cps		
Part B	730 cps		
Mixed Part A + B	variable	1.12	24.73

Ultimate Tensile Strength: 2,469 psi after 1 day---3,173 psi after 7 days **Shore D Hardness:** 80
Modulus: 48,509 psi after 1 day---63,630 after 7 days

Applying A Release Agent

Mixing

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

Preparation . . . Materials should be stored and used in a warm environment (72° F / 33° C). Spraying should be done in a well-ventilated area. **Breathing protection:** Wear an independent air supplied hood or NIOSH approved breathing mask, latex gloves and long sleeve garments to minimize skin contact is strongly recommended.

Applying A Release Agent . . . A release agent is necessary to facilitate demolding when spraying over most surfaces. Use a release agent made specifically for mold making (Universal Mold Release) available from TCS, Inc). 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.

Mixing . . . After dispensing equal amounts of Parts A and B into spray machine hoppers, open hopper valves and follow instructions for spraying as provided in EZ~Spray™ Machine Manual.

Remember, EZ~Spray sets up immediately. *Mixing tubes must be purged with solvent immediately after spraying to avoid hardening and clogging.*

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. Consult **EZ~Spray Machine Flow Chart and Instruction Manual** for more tips, maintenance and clean-up procedures.

Curing . . . EZ~Spray Plastic will harden immediately and can be demolded in about one hour depending on mass and configuration.

Performance . . . Cured castings of EZ~Spray Plastic 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 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 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.

Safety First!

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The material safety data sheet (MSDS) for this or any other product should be read before using and is available at www.SCULPT.com. All Smooth-On products are safe to use if directions are read and followed carefully.

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.

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