



TASK™ 7

Moisture Resistant Rigid Urethane Casting

PRODUCT OVERVIEW

Formula TASK™ 7 is a rigid urethane casting resin that resists ambient moisture and minimizes bubbles in cured castings (i.e. caused due to humidity in the air). Mix ratio is 1A:1B by volume. Pot life is 7 minutes and demold time is 30 minutes (depending on mass and temperature). Ultimate Shore hardness is Shore 70D. Plastic can be pigmented with SO-Strong color tints.

TECHNICAL OVERVIEW

Key Values:	~Mixing Ratio: 1Part A to 1 Part B by volume.	~Color: Off-White
	Shore Hardness: 70D	~Pot Life: 7 minutes*
		~Demold Time: 30 minutes*
Ultimate Tensile Strength	3,170 PSI.	Shore Hardness 70D
		Shrinkage01 in/in
*At room temperature and depending on mass.		

Preparation

Mixing

Preparation . . . Materials should be stored and used in a warm environment (72° F / 23° C). Your mixing tools and containers should be clean and made of metal, glass or plastic. To minimize the introduction of harmful moisture to your mix or unused product, do not use wooden utensils or paper containers. As with most two-component urethane products, mixing should be done in a well-ventilated area. Wearing latex gloves and long sleeve garments will help minimize skin contact. **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 A Release Agent . . . If you are unsure about surface compatibility, a trial casting on a surface finish similar to the final mold or model should be made to avoid damage to the working surface. Polyurethane, latex or metal molds should be dry and require a coat of suitable release agent. Universal Mold Release (available from Smooth-On) is ideal for this purpose. A liberal coat of release agent should be applied onto all surfaces that will contact the plastic. 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.

Before Mixing . . . Part B (blue label) must be stirred well before use.

Mixing . . . The components (Parts A and B) should be at room temperature (77 F / 25 C). Combine equal amounts of Parts A & B in a mixing container. Make sure that you scrape the bottom and sides of your container several times.

IMPORTANT: Shelf life of product is drastically reduced after opening. Remaining product should be used as soon as possible. **XTEND-IT Dry Gas Blanket** (available from Smooth-On) will significantly prolong the shelf life (up to 4 times longer) of unused liquid urethane products.

POURING

Pouring . . . For best results, pour your mixture in a single spot at the lowest point of the mold or container and let the mixture seek its level. If encapsulating an object, do not pour the mixture directly over the object. Let the mixture seek its own level around and over the object. This will help minimize air entrapment.

Performance . . . Cured castings are rigid and durable. They also resist moisture, moderate heat, solvents and dilute acids. Mold release must be removed prior to painting or bonding the cured piece. 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 for this or any Smooth-On product should be read before using and is available upon request. All Smooth-On products are safe to use if directions are read and followed carefully.

Be Careful . . . Read MSDS before using. Part A (Yellow Label) contains methylene diisocyanate. Vapors, which can be significant if prepolymer is heated or sprayed, 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 seek 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 seek immediate medical attention. Remove from skin with soap and water. When mixing with Part A, follow precautions for handling isocyanates.

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 patent. User shall determine the suitability of the product for his/her intended application and assume all risk and liability whatsoever in connection therewith.

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Technical Help/General Offices (800) 762-0744

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Our FAX Number (24 Hours A Day) (610) 252-6200

Website: www.smooth-on.com

Office Hours and Technical Assistance: 8:00 a.m. to 5:00 p.m. eastern standard time.

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