

# STAR Technology

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## 740-01A Urethane Potting

### DESCRIPTION

Star Technology 740-01A is a water white, flexible, medium durometer hardness, urethane for potting, encapsulation, and mold making. Typical applications for 740-01A would include mold making, concrete mold blanket production, and encapsulation of shock sensitive instruments. The low viscosity of 740-01A allows for excellent wetting of substrate surface for detail reproduction.

Note: Urethane compounds are moisture sensitive and must be protected from moisture contamination. Moisture can cause foaming and cure inhibition of the compound. Be sure to keep all urethane material properly lidded, and if possible, blanket with Nitrogen.

### BENEFITS

Easy handling properties	Long term dimensional stability
Excellent edge coverage	Low shrinkage
Exceptional electrical properties	Clear and Colorless

### TYPICAL PROPERTIES (cured 7 Days at 75°F)

		<u>TEST METHOD</u>	<u>VALUE</u>
Mix Ratio, Resin to Hardener	Parts by Weight		100:98
	Parts by Volume		100:100
Mixed Viscosity (centipoise)		ASTM D2393	750
Density (lbs./gal.)			8.6
Pot Life at 75°F (minutes)		ASTM D2471	12
Demolding time at 75°F (hours)			1-2
Ultimate Cure Time at 75°F (days)			1
Color			Clear and Colorless
Shore Hardness (A)		ASTM D2240	40
Tensile Strength			475 psi
Elongation			200
Shrinkage (%)			nil
Coeff or exp. (in/in/°C)			4.16E-5

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### APPLICATION PROCEDURES

Carefully weigh out appropriate amounts of resin and hardener into a clean mixing container and thoroughly mix until all streaks and striations are gone. Scrape the sides and bottom frequently to ensure complete mixing.

CAUTION: Unmixed compound from the sides or bottom of the container can cause soft spots or uncured areas in the completed piece. To prevent this, transfer the entire mixed contents to a second clean container and remix for a short time before using.

### PRECAUTIONS

For industrial use only. Keep away from children.

Refer to the Material Safety Data Sheets (MSDS forms) pertaining to this product before using.

Avoid contact with skin or eyes. In the event of an eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing of safety glasses with side shields and impervious gloves is recommended.

### RESIN AND HARDENER WARNING STATEMENT

May cause allergic skin reaction. Avoid all contact with skin, eyes, and clothing. Wash thoroughly after handling.

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