STAR Technology
FORMULATING • INNOVATIVE • SOLUTIONS

770-01D

Urethane Potting

DESCRIPTION

Star Technology 770-01D is a high durometer hardness, urethane for potting, encapsulation, and mold making. Typical applications for 770-01D would include mold making, and encapsulation of shock sensitive instruments. The low viscosity of 770-01D allows for excellent wetting of substrate surface for detail reproduction. 770-01D has been formulated for high impact resistance

Note: Urethane compounds are moisture sensitive and must be protected form moisture contamination. Moisture can case 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

TYPICAL PROPERTIES (cured 7 Days at 75°F)

		TEST METHOD	VALUE
Mix Ratio, Resin to Hardener	Parts by Weight		100:75
	Parts by Volume		100:100
Mixed Viscosity (centipoise)		ASTM D2393	8500
Density (lbs./cu.in)		ASTM D1475	0.05
(lbs./gal.)			11.4
Pot Life at 75°F, 150g (minutes)		ASTM D2471	>120
Demolding time at 75°F (hours)			16
Cure Time at 75°F (days)			1
Color			Black
Shore Hardness (D)		ASTM D2240	70
Tensile Strength (psi)			8470
Shrinkage (%)			nil
CTE (in/in/'C)			8.7E-5

200 EXECUTIVE DRIVE, WATERLOO, IN 46793
P 800.741.7833 OR 260.837.7833 F 260.837.7834
WWW.STAR-TECHNOLOGY.COM

STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

770-01D

Urethane Potting

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.

200 EXECUTIVE DRIVE, WATERLOO, IN 46793
P 800.741.7833 OR 260.837.7833 F 260.837.7834
WWW.STAR-TECHNOLOGY.COM