

STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

775-01A Urethane Potting

DESCRIPTION

STAR Technology 775-01A is a medium durometer hardness, urethane for potting, encapsulation, and mold making. Typical applications for 775-01A would include mold making, concrete mold blanket production, and encapsulation of shock sensitive instruments. The low viscosity of 775-01A allows for excellent wetting of substrate surface for detail reproduction. 775-01A has been formulated for high taber abrasion and low water absorption.

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

TYPICAL PROPERTIES (cured 7 Days at 75°F)

		<u>TEST METHOD</u>	<u>VALUE</u>
Mix Ratio, Resin to Hardener	Parts by Weight		100:34.1
	Parts by Volume		100:30.2
Mixed Viscosity (centipoise)		ASTM D2393	700
Density (lbs./cu.in)		ASTM D1475	0.04
	(lbs./gal.)		9.17
Pot Life at 75°F (minutes)		ASTM D2471	6
Demolding time at 75°F (hours)			2
Cure Time at 75°F (days)			1
Color			Black
Shore Hardness (A)		ASTM D2240	75-80
Tensile Strength:			
at 100% elongation:			900 psi
at break:			2840 psi
Tear Strength (pli)			
Die "C"			50
Split Die			60
Elongation at break			260
Lap Shear (psi)			43.4
Taber Abrasion (mg/1000 cycles)			1060
Water Absorption after 30 days at 24°C (%)			0.44
Shrinkage (%)			.00142
CTE (in/in/°C)			1.81E-5

To the best of our knowledge, the information contained herein is accurate. However, STAR TECHNOLOGY, Inc., does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchaser in selecting the appropriate products for purchaser's own testing. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein and in the material safety data sheet, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.



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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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