

STAR Technology

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510-01

Epoxy Laminating System

DESCRIPTION

STAR Technology 510-01 is a white, filled, general purpose laminating system which cures at room temperature. It has a low viscosity for ease of glass wet-out without drain off. 510-01 is designed with a moderate pot life and low odor. The overall size, thickness, and lay-up speed will influence the desirable pot life of laminating system. In general, larger laminates and bagging operations will call for a slow hardener. Typical applications for 510-01 include prototypes, master models, trim fixtures, duplications splashes, potting bushings, Keller models, patterns and core boxes, and holding, checking, and drill fixtures.

BENEFITS

Shorter lead times	Excellent dimensional stability
No vertical drain off	Low odor-no BGE

TYPICAL PROPERTIES (cured 7 days at 75°F.)

		<u>TEST METHOD</u>	<u>VALUE</u>
Mix Ratio, Resin to Hardener	Parts by Weight		100:16
	Parts by Volume		100:23
Mixed Viscosity (centipoise)		ASTM D2393	4,500
Density (lbs./cu.in.) (lbs./gal.)		ASTM D1475	.0518
			11.97
Pot Life at 75°F (minutes)		ASTM D2471	25
Demolding time at 75°F (hours)			16
Cure Time at 75°F (days)			7
Shore Hardness (D)		ASTM D2240	86
Tensile Strength (psi)		ASTM D638	4,100
Flexural Strength (psi)		ASTM D790	9,000
Flexural Modulus (psi)		ASTM D790	686,000
Compressive Ultimate Strength (psi)		ASTM D695	14,000
Maximum Service Temperature (°F)			180

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 laminate. To prevent this, transfer the entire mixed contents to a second clean container and remix for a short time before using.

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.

**510-01****Epoxy Laminating System****PRECAUTIONS**

For industrial use only. Keep away from children.

Refer to the Safety Data Sheets (SDS 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 WARNING STATEMENT

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

HARDENER WARNING STATEMENT

Danger! Corrosive. Causes burns to eye and skin. May cause allergic skin and/or respiratory reaction or sensitization. Do not get in eyes, on skin or clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

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