

STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

511-01 Epoxy Laminating System

DESCRIPTION

STAR Technology 511-01 is an unfilled, room temperature curing laminating system which may also be used for bonding applications. Its low viscosity allows for ease of glass wet-out. 511-01 has a moderate pot life and low odor. The overall size, thickness, and layup 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 511-01 include prototypes, master models, trim fixtures, duplication splashes, Keller models, patterns and core boxes, and holding fixtures. It is suitable as a binder resin for back-fill applications.

BENEFITS

Excellent chemical and water resistance	Fast wet out
Cures in a thin film	Low odor-No BGE

TYPICAL PROPERTIES

	<u>TEST METHOD</u>	<u>VALUE</u>
Gel Time [100 Gram Mass at 75 ° F] (minutes):	ASTM D2471	25
Shore D Hardness:	ASTM D2240	85
Tensile Strength (psi):	ASTM D638	3800
Flexural Strength (psi):	ASTM D790	8100
Flexural Modulus (psi):		500,000
Mixed Product:		
Specific Gravity (g/cc):	ASTM D1475	1.10
Viscosity (cps):	ASTM D2393	2300
Color:		Amber
Mix Ratio:		
By Weight:		100:25
Shelf Life (months):		12

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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