

STAR Technology

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ER4300

Two Part Epoxy Laminating System

DESCRIPTION

ER4300 epoxy system is a two-component epoxy used for laminating and potting various substrates. ER4300 has been used successfully to bond the following items: expanded polystyrene beadboard, aluminum, lauan, Melamine/Formica, Masonite, cold rolled steel (CRS), and plywood.

ER4300 has found uses in laminating exterior and interior steel doors, gasoline station canopies, insulated building and roof panels, RV side panels and roofs, and potting of various electronic components.

ER4300 can be cleaned up by using mild solvents including vinegar.

Data contained herein are believed to be reliable. Fit-for-use testing should be conducted by each user.

TYPICAL PROPERTIES:

	<u>TEST METHOD</u>	<u>VALUE</u>
Viscosity (centipoise)	ASTM D2393	
Component A:		60,000
Component B:		60,000
Mixed:		60,000
Density (lbs./gal.)	ASTM D1475	
Component A:		14
Component B:		14
Mixed:		14
Color		
Component A:		Grey
Component B:		Black
Mixed:		Grey
Mix Ratio, Resin to Hardener		
Parts by Weight		100:50
Parts by Volume		100:50
Pot Life at 23°C (minutes)	ASTM D2471	60
Ultimate Cure Time at 23°C (hours)		48
Shore Hardness (Type D)	ASTM D2240	80
Shear Strength (psi)		
24 hours at 23°C:	ASTM D638	1800
Aged (336 hours at 100°C):		1200
Tg (°C):		100°C

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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