

STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

500-01

Epoxy Surface Coat System

DESCRIPTION

STAR Technology 500-01 is a two component, thixotropic, white, general purpose surface coat designed for reproduction of fine detail. It cures at room temperature and has a creamy consistency which makes it easy to apply without sag or run off on vertical surfaces and over sharp radii. It has exceptional handling properties, going on smoothly and evenly, with no drag on the brush. When choosing any surface coat, consideration should be given to tool size, configuration, build method, and final use. Surface coat thickness of 0.030" is considered average for room temperature applications. 500-01 should be backed with a laminate using a Star room temperature laminating system such as 510-01 or 511-01. Typical applications for 500-01 include prototypes, master models, trim fixtures, duplication splashes, Keller models, holding fixtures, patterns, and core boxes.

BENEFITS

Easy handling properties	Long term dimensional stability
Excellent edge coverage	Low shrinkage
Fast setting	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		100:22
Mixed Viscosity (centipoise)		ASTM D2393	55,000
Thixotropic Index	3.5		
Density (lbs./cu.in)		ASTM D1475	.049
(lbs./gal.)			11.38
Pot Life at 75°F (minutes)		ASTM D2471	25
Demolding time at 75°F (hours)			16
Cure Time at 75°F (days)			7
Color			White
Shore Hardness (D)		ASTM D2240	87
Tensile Strength (psi)		ASTM D638	2,500
Flexural Strength (psi)		ASTM D790	7,300
Flexural Modulus (psi)		ASTM D790	780,000
Compressive Strength (psi)		ASTM D695	14,900
Maximum Service Temperature (°F)			180

APPLICATION PROCEDURE

Carefully weigh out appropriate amounts of resin and hardener into a clean container and mix until all streaks are gone. Scrape the sides and bottom frequently to ensure complete mixing.

CAUTION: Unmixed material from the sides or bottom of the container can cause soft spots or uncured areas in the completed tool. To prevent this, transfer the entire mixed contents to a second clean container and re-mix 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.



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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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