

STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

UVA4000

Two Part Epoxy System Encapsulation and Potting Compound

DESCRIPTION:

UVA4000 is a low viscosity, two part Epoxy system designed for applications which require an "overcure" or skinning of the epoxy with UV light and then a final curing of the deeper or shadowed resin, which will occur at room temperature or may be accelerated with a mild heat. **UVA4000** finds applications in potting, encapsulation, lamination and fast tack adhesive applications. *UV light must be applied to the product within 7 minutes after mixing; otherwise the reaction goes completely at room temperature.*

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>
Gel Time [100 grams mass at 77° F] (hours)		4
Shore D Hardness:	ASTM D2240	80
Tensile Strength (psi):	ASTM D638	7300
Elongation (%):		5
Refractive Index:		1.5470
CTE:		4.2 x 10 ⁻⁵ u/u/°C [20°C to 75°C]
Part A:		
Specific Gravity (g/cc):	ASTM D1475	1.12
Viscosity (cps):	ASTM D2393	1200
Color:		Clear
Part B:		
Specific Gravity (g/cc):	ASTM D1475	.95
Viscosity (cps):	ASTM D2393	400
Color:		Clear
Mixed Product:		
Specific Gravity (g/cc):	ASTM D1475	1.06
Viscosity (cps):	ASTM D2393	600
Color:		Clear
Mix Ratio:		
By Weight:		100:43
By Volume:		100:50
Dielectric Constant at 25°C:	Dissipation Factor at 25 °C:	
1 kHz	1kHz	0.0145
10 kHz	10kHz	0.0123
100 kHz	100kHz	0.0129

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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