

STAR Technology

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ER3115

Two Part Low Viscosity Potting Compound

DESCRIPTION

ER3115 is a two component clear epoxy used for potting, encapsulation and sealing of electronic assemblies. ER3115 should be used for applications where it is essential to see potted components. The low mixed viscosity make intimate wet out possible. ER3115 has a convenient 2:1 mix ration and is ideal for low mass, fast set potting applications.

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

APPLICATION TO THE SUBSTRATE FOR DOMING APPLICATIONS

For best results, the surface to be coated should be lightly sanded to remove the rough areas. After sanding, the panel should be wiped with a damp cloth to remove the dust and then allowed to dry. Wood or other porous materials should be primed prior to the application of ER3115 high gloss coating. This may be done with a light coating of ER3115. If sanding the primer coating prior to the application of the decorative coating, the primer coat should be allowed to dry overnight. Mix 2 parts A with 1 part of B by volume. The material must be thoroughly mixed together to obtain a properly cured coating. Pour the coating over the object and, if necessary, spread the coating with a brush to ensure complete coverage. The bubbles created during mixing can be broken by a propane torch or with forced hot air (Heat Gun). ER3115 high gloss coating of 10 to 20 mils thickness will dry to the touch in about 3 hours at room temperature (~25° C). Full hardness will be reached in 2 to 3 days.

TYPICAL PROPERTIES

	<u>TEST METHOD</u>	<u>VALUE</u>
Part A:		
Viscosity (cps):	ASTM D2393	10000- 14000
Part B:		
Viscosity (cps)	ASTM D2393	100
Mix Ratio:		
By Volume:		2:1
Gel Time [100 Gram Mass at 75°F] (minutes):	ASTM D2471	58
Drying time (hours):		
Set to Touch:		3
Thru Dry:		12
Shore D Hardness:	ASTM D2240	75
Tensile Stress (psi)		>8500
Tensile Elongation (%)		<10
Dielectric Strength V/mil		450-500
Glass Transition (Tg)		70-80
Shelf Life (months):		
Part A:		12
Part B:		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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High Gloss Coating and Casting Compound

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.

For 1# and 2# kits, add all of Part B to Part A and mix thoroughly.

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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