

# STAR Technology

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## ER1030

### 30 Minute Clear Epoxy

#### DESCRIPTION

ER1030 epoxy system is a flowable, industrial grade epoxy adhesive. Once mixed, the two part epoxy cures at room temperature with minimal shrinkage and forms an ultra clear bond line with excellent impact resistance. When fully cured, the epoxy withstands exposure to a wide range of chemicals and solvents. ER1030 has excellent dimensional stability over a wide temperature range. Designed for bonding, small potting and laminating applications where optical clarity and excellent structural, mechanical, and electrical insulating properties are required. Bonds most materials including glass, optical fibers, ceramic, metals, and many rigid plastics. ER1030 is a 100% solids product containing no volatile solvent which might prove irritating to employees. ER1030 can be applied manually when made up in small batches or with a meter/mix applicator. ER1030-2 is a paste version of ER1030.

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 Gram Mass at 75° F] (minutes):	ASTM D2471	5-7
Shore D hardness:	ASTM D2240	80
Lap Shear Strength [CRS to CRS] (psi):	ASTM D1002	2000
24 Hour Water Absorption (%):		<1
Solids Content (%):		100 [No solvents]
Operating Temperature (° C):		-40 to 130 [Intermittent]
Volume Resistivity (Ω cm)	ASTM D257	
23C/48%rh		3.80x10 <sup>13</sup>
150C		7.09x10 <sup>8</sup>
Part A:		
Viscosity (cps):	ASTM D2393	12000
Color:		Clear
Part B:		
Viscosity (cps):	ASTM D2393	12000
Color:		Amber
Mix Ratio:		
By Weight:		100: 100
By Volume:		100: 100

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.

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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