

# E-Z Poxy

## TECHNICAL DATA BULLETIN

### PRELIMINARY DATA

### FUEL RESISTANT COLD-MOLDING EPOXY RESIN SYSTEM

## 100A RESIN / E-Z 92B HARDENER

CoPoxy 100A Resin with E-Z Poxy E-Z 92B Hardener is a low viscosity room temperature curing epoxy laminating resin system that exhibits a very rapid cure and development of physical properties. It provides superior wet out of fiber reinforcements, bonds well to wood and provides excellent adhesion of fiber glass, carbon and Kevlar® to wood.

### HANDLING PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
Resin Density at 25°C, lbs/gal	9.7	ASTM D1475
Hardener Density at 25°C, lbs/gal	9.3	ASTM D1475
Resin Viscosity at 25°C, cP	1,000	ASTM D2196
Hardener Viscosity at 25°C, cP	500	ASTM D2196
Mix Ratio By Volume	2.5A : 1B	Calculated
Mix Ratio By Weight	100A : 38B	Calculated
Initial Mixed Viscosity at 25°C, cP	1,200	ASTM D2196
Gel Time at 25°C, minutes	25	ASTM D2471
Tack Free Time at 25°C, hours	2-3	
Complete Cure at 25°C, days	1-2	

### PHYSICAL PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
Color	Amber-Brown	Visual
Weight Change, 28 Days, Deionized Water, %	+0.557	Immersion
Weight Change, 28 Days, Diesel Fuel, %	+0.050	Immersion
Weight Change, 28 Days, Gasoline, %	+0.379	Immersion

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## SYSTEM POST CURE OPTIONS:

Select one of the following cure schedules depending on the available time, the physical properties of the master and the desired physical properties of the final part. Post cure the structure to obtain maximum physical properties from the system. Please contact technical service if you find it necessary to have a different post cure schedule.

## CURE INCREMENTS:

	OPTION I	OPTION II
*1-2 days at 77°F (25°C)	X (S)	
6-8 hrs at 77°F (25°C)		X(S)
4 hrs. at 150°F (66°C)		X(S)

\*For full cure at room temperature

S = Supported

U = Unsupported

## TOOL, MOLD AND/OR PATTERN PREPARATION:

Wood structures should be sealed. Gypsum molds should be dried to remove free moisture and preferably sealed with the PFP process or appropriate sealer. All non-porous tools, molds or patterns should be treated with release or parting agents which can withstand the temperature that the part will be cured at while remaining in a supported position.

## STORAGE AND HANDLING:

Store at 60-100°F in a dry place. After use, tightly reseal. (This product may crystallize during storage. If crystallized, vent container and heat to 125-145°F until crystals dissolve. Stir well after product has liquefied.) Always use clean dry tools for mixing and applying. Mix according to the mix ratio stated for the specific product as listed on the front page. Mix together thoroughly and use immediately. Material temperatures should not be below 65°F when mixing.

## SAFETY HANDLING:

Work in well ventilated areas using gloves, eye protection and clothing protection. Avoid contact to the skin and eyes. Avoid clothing contamination. Wash thoroughly after handling. These products may cause skin and respiratory allergic reactions. Consult Material Safety Data Sheets for complete precautions with this product.

**Endurance Technologies, Inc. has experience only in the compounding of resins and hardeners and not in the actual manufacture of tools or parts. Each piece is different. The user should run tests to assure the suitability of the system for use in a particular application. The test data and results set forth herein are based on laboratory work and do not necessarily indicate the results that the buyer or user will attain.**

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Revised May 2012

