

STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

ER3111

Two Part General Purpose Epoxy System

DESCRIPTION

ER3111 is a room temperature cure epoxy potting and encapsulation compound formulated with a moderate gel time to facilitate many potting application. The low viscosity of ER3111 allows for intimate wetting of the substrate and allows entrapped air to release before gelation. ER3111 is a 100% solids product containing no volatile solvent which might prove irritating to employees. Versabond ER3111 can be applied manually when made up in small batches or with a meter/mix applicator. It has a convenient 2:1 mix ratio by volume for ease of use in automatic or manual dispensing.

TYPICAL PROPERTIES

	<u>TEST METHOD</u>	<u>VALUE</u>
Gel Time [100 Gram Mass at 75° F] (minutes):	ASTM D2471	60
Thin Film Set Time [75° F] (hours):		4
Ultimate Shore D hardness:	ASTM D2240	80
Tensile Strength (psi):	ASTM D638	6133
Volume Resistivity (ohms/cm ³):		2.9 x 10 ¹⁶
Dielectric Strength (volts.mil):		449
Tg (°C):	ASTM D3418	99
CTE (unit/unit/°C):		95.9 x 10 ⁻⁶
24 Hour Water Absorption (%):		<1
Shrinkage (%):		0.02
Solids Content (%):		100
Operating Temperature (°C):		-40 to 130
Part A:		
Specific Gravity (g/cc):	ASTM D1475	1.14
Viscosity (cps):	ASTM D2393	2500
Color:		Black
Part B:		
Specific Gravity (g/cc):	ASTM D1475	0.95
Viscosity (cps):	ASTM D2393	100
Color:		Amber
Mixed Product:		
Specific Gravity (g/cc):	ASTM D1475	1.07
Viscosity (cps):	ASTM D2393	1500
Color:		Black
Mix Ratio:		
By Volume:		100:50
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.



STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

ER3111

Two Part General Purpose Epoxy System

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.

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.