

## Product Data

# EPOCAST® 89537-A/B

## EPOXY SYNTACTIC

- Low Density Core Filler
- Self-Extinguishing

### DESCRIPTION

Epocast 89537-A/B epoxy syntactic is a two-part system with glass-fiber reinforcement that can be trowelled or extruded into honeycomb core structures for fastener and attachment potting, core splicing and edge reinforcing. The syntactic has a non-sag consistency that allows for vertical application up to ½-inch (1.25cm) thick. Epocast 89537-A/B epoxy syntactic is self-extinguishing and meets the requirements of BMS 5-28 Type 7, Class 2.

### TYPICAL PROPERTIES AS RECEIVED

<u>Property</u>	<u>89537-A Resin</u>	<u>89537-B Hardener</u>	<u>89537-A/B System</u>	<u>Test Method</u>
Color	White	Black	Gray	Visual
Density, g/cc.	0.85	1.00	0.90	ASTM-D-1622
Viscosity, cP @ 77°F (25°C)	Paste	10,000	Soft-Paste	ASTM-D-2196
Gel time, 100 gms. at 77°F (25°C), minutes	--	--	70	ASTM-D-2471
Shelf life at 77°F (25°C), unopened, months	12	12	--	--

NOTE: Stir contents of individual containers before weighing and mixing together.

### MIX RATIO

To 100 parts by weight of Epocast 89537-A resin, add 18.5 parts by weight of Epocast 89537-B hardener. Mix both components thoroughly for 3-5 minutes to insure complete and uniform mixing. Mix carefully to prevent air entrapment and excess voids.

### CURE SCHEDULE

Cure # 1 - 7 Days @ 77°F ± 2°F (25°C ± 1°C)

Cure # 2 - Gel @ Room Temperature + 90 minutes @ 260°F ± 10°F (127°C ± 6°C)

Cure # 3 - Gel @ Room Temperature + 60 minutes @ 350°F (177°C)

### TYPICAL CURED PROPERTIES (Not for specification purposes)

<u>Test</u>	<u>Result</u>		<u>Test Method</u>
	<u>Strength</u>	<u>Modulus</u>	
Compressive Strength/Modulus, Ksi (MPa)			ASTM-D-695
After Cure #1	8.50 (58.6)	450 (3,103)	--
After Cure #2	8.60 (59.3)	450 (3,103)	--
After Cure #3	8.80 (60.7)	435 (3,000)	--
Lap Shear Strength, AL/AL. psi (MPa)			ASTM-D-1002
After Cure # 1	1200 (8.3)		--
After Cure # 2	1800 (12.4)		--
After Cure # 3	1900 (13.1)		--
Weight Gain % After 24 Hours Immersion			ASTM-D-543
TT-S-735 Test Fluid	0.40		--
Mil-M-5606 Hydraulic Fluid	0.37		--
Monsanto Low Density Hydraulic Test Fluid	0.48		--
Distilled Water	0.30		--
Flammability, Burn Rate, in. (cm)/minute	1 (2.54)		--

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**FIRST AID!**

Eyes and skin: Flush eyes with water for 15 minutes. Contact a physician if irritation persists. Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

Inhalation: Remove subject to fresh air.

Swallowing: Dilute by giving water to drink and contact a physician promptly. Never give anything to drink to an unconscious person.

**KEEP OUT OF REACH OF CHILDREN**

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