

Advanced Materials**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

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)			
After Cure # 1	1200 (8.3)		ASTM-D-1002
After Cure # 2	1800 (12.4)		--
After Cure # 3	1900 (13.1)		--
Weight Gain % After 24 Hours Immersion			
TT-S-735 Test Fluid	0.40		ASTM-D-543
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)		--

STORAGE :

Epocast[®] 89537-A/B should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+35.6°F and 104°F). The product should not be exposed to direct sunlight. Under these storage conditions, and when supplied under Huntsman standard certification, this product has a shelf life of 1 year (expiration date may differ based on customer specification).

Material temperatures should be above 18°C (65°F) when mixing. After use, tightly reseal containers.

PRECAUTIONARY STATEMENT :

Huntsman Advanced Materials Americas LLC maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!

Refer to MSDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN**FOR PROFESSIONAL AND INDUSTRIAL USE ONLY**

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