

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
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)		--

STORAGE/ Syntactic epoxy resins and hardeners should be stored in a dry place in their original, sealed
SHELF LIFE : containers at temperatures from 60-90°F (16-32°C). Material temperatures should be above 65°F (18°C) when mixing. After use, tightly reseal containers. Frozen materials should be stored at 0°F (-18°C) or colder and allowed to thaw at room temperature before use.

Under these conditions, syntactic epoxy resins and hardeners will remain useable for 12 months from date of shipping from Huntsman.

CAUTION :

Huntsman Advanced Materials Americas Inc. 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. Copies of the latest MSDS may be requested by calling our customer service group at 800-367-8793 or emailing your request to adhesives_group@huntsman.com.

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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