

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)			
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/ SHELF LIFE : Syntactic epoxy resins and hardeners should be stored in a dry place in their original, sealed 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

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

IMPORTANT LEGAL NOTICE

Sales of the product described herein ("Product") are subject to the general terms and conditions of sale of either Huntsman Advanced Materials LLC, or its appropriate affiliate including without limitation Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., or Huntsman Advanced Materials (Hong Kong) Ltd. ("Huntsman"). The following supercedes Buyer's documents.

Huntsman warrants that at the time and place of delivery all Products sold to Buyer shall conform to the specifications provided to Buyer by Huntsman.

While the information and recommendations included in this publication are, to the best of Huntsman's knowledge, accurate as of the date of publication, NOTHING CONTAINED HEREIN (EXCEPT AS SET FORTH ABOVE REGARDING CONFORMANCE WITH SPECIFICATIONS PROVIDED TO BUYER BY HUNTSMAN) IS TO BE CONSTRUED AS A REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND THE BUYER ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES.

No statements or recommendations made herein are to be construed as a representation about the suitability of any Product for the particular application of Buyer or user or as an inducement to infringe any patent or other intellectual property right. Buyer is responsible to determine the applicability of such information and recommendations and the suitability of any Product for its own particular purpose, and to ensure that its intended use of the Product does not infringe any intellectual property rights.

The Product may be or become hazardous. The Buyer should obtain Material Safety Data Sheets and Technical Data Sheets from Huntsman containing detailed information on Product hazards and toxicity, together with proper shipping, handling and storage procedures for the Product, and should comply with all applicable governmental laws, regulations and standards relating to the handling, use, storage, distribution and disposal of, and exposure to the Product. Buyer shall also take all steps necessary to adequately inform, warn and familiarize its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product of all hazards pertaining to and proper procedures for safe handling, use, storage, transportation and disposal of and exposure to the Product, and the containers or equipment in which the Product may be handled, shipped or stored.

Epocast is a registered trademark of Huntsman LLC or an affiliate thereof in one or more countries, but not all countries.

© 2006 Huntsman Advanced Materials Americas Inc.

Main Offices :

Huntsman Corporation
10003 Woodloch Forest Dr.
The Woodlands
Texas 77380
(281) 719-6000

**Huntsman Advanced Technology
Center**
8600 Gosling Rd.
The Woodlands
Texas 77381
(281) 719-7400