

Advanced Materials

Epocast[®] 1629-A/B

EPOXY SYNTACTIC

- Ultra Low Density Syntactic
- Self-Extinguishing
- Soft Paste Consistency

DESCRIPTION :

Epocast[®] 1629-A/B epoxy syntactic is a beige-tan, self-extinguishing, ultra-low density system for edge reinforcing of honeycomb structures. It can be extruded or spread with a putty knife and resists slumping on vertical surfaces. Epocast[®] 1629-A/B epoxy syntactic sands and machines easily when cured. It is a non-PBDE containing material and can be used as a replacement for Epocast[®] 87005 A/B-80 epoxy syntactic, Epocast[®] 87005 A/B-60 epoxy syntactic, Epocast[®] 87269 A/B epoxy syntactic, Epocast[®] 87005 A/B-61 epoxy syntactic, and Epocast[®] 87005 A/BE- 60 epoxy syntactic.

TYPICAL PROPERTIES AS RECEIVED :

<u>Property</u>	<u>1629-A Resin</u>	<u>1629-B Hardener</u>	<u>1629-A/B System</u>	<u>Test Method</u>
Color	White	Peach	Lt. Tan	Visual
Density, g/cc.	0.52	0.42	0.48	ASTM-D-1622
Viscosity at 77°F (25°C), cP	Paste	Paste	Paste	ASTM-D-2196
Gel time, 75 gms at 77°F (25°C), minutes	--	--	70	ASTM-D-2471
Shelf life at 77°F (25°C), unopened, months	6	6	--	--

MIX RATIO :

To 100 parts by weight of Epocast[®] 1629-A resin, add 50 parts by weight of Epocast[®] 1629-B hardener. Mix both components thoroughly for several minutes to assure complete blending.

CURE SCHEDULE :

48 hours at 77°F (25°C), or gel at room temperature plus 5 hours at 125°F (52°C).

TYPICAL CURED PROPERTIES (Not for specification purposes)

<u>Test</u>	<u>Result</u>	<u>Test Method</u>
Compressive strength, at 77°F (25°C), Ksi (MPa)	3.0 (20.6)	ASTM-D-695
Compressive modulus, at 77°F (25°C), Ksi (MPa)	200 (1,379)	--
Tensile lap shear, etched AL/AL, at 77°F (25°C), psi (MPa)	1,100 (7.6)	ASTM-D-1002
Flammability, 12-second vertical	self-extinguishing, 2 seconds	--
Burn Length, in. (mm)	1 (25.4)	
Drip Ext. time	0	
Weight gain on immersion after 24 hours at 77°F, %		ASTM-D-543
Mil-S-3136, Type III test fluid	0.6	--
Mil-M-5606, hydraulic fluid	1.5	--
Skydrol 500-A	3.0	--
Distilled water	2.3	--

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 6 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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