

**Advanced Materials****Epocast<sup>®</sup> 1617 A/B Epoxy Syntactic**

- **Low Density**
- **Self-Extinguishing**
- **One Hour Work Life**

**DESCRIPTION**

Epocast<sup>®</sup> 1617 A/B epoxy syntactic is a low-density, self-extinguishing compound for edge sealing honeycomb structures. The lightweight epoxy is an easy-to-handle material that exhibits high strength after curing. Epocast<sup>®</sup> 1617 A/B epoxy syntactic cures to an off-white color and is qualified to BMS 5-28, Type 17.

**TYPICAL PROPERTIES AS RECEIVED**

Property	Test Method	1617 A Resin	1617 B Hardener	Mixed System
Color	Visual	Off-white	Amber	Off-white
Density, g/cc	ASTM D1622	0.65	1.05	0.70
Viscosity at 77°F (25°C), cP	ASTM D2196	Paste	50,000	Paste
Gel Time, 50g at 77°F (25°C), min	ASTM D2471	--	--	60-90

**MIX RATIO**

To 100 parts by weight of Epocast<sup>®</sup> 1617 A resin, add 20 parts by weight of Epocast<sup>®</sup> 1617 B hardener. Mix both components thoroughly for several minutes to assure complete blending.

NOTE: Resin/filler separation may occur in Epocast<sup>®</sup> 1617 A resin. Remix before use.

**CURE SCHEDULE**

7 days 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)

Test	Test Method	Test Temperature	Result
Tensile lap shear, Al-Al, psi (MPa)	ASTM D1002	77°F (25°C)	1,000 (6.9)
Compressive strength, psi (MPa)	ASTM D695	77°F (25°C)	5,500 (37.9)
		180°F (82°C)	1,570 (10.8)
		250°F (121°C)	670 (4.6)
		350°F (177°C)	660 (4.6)
Compressive modulus, ksi (MPa)	ASTM D695	77°F (25°C)	250 (1,724)
		180°F (82°C)	44 (302)
		250°F (121°C)	16 (110)
		350°F (177°C)	16 (110)
Weight change, 24 hr immersion, % Mil-S-3136, Type III test fluid Mil-M-5606 hydraulic fluid Skydrol 500A Distilled water	ASTM D543	77°F (25°C)	< 1.0
			< 2.0
			< 2.5
			< 2.0
Flammability	--	--	Self-extinguishing

**STORAGE**

Epocast<sup>®</sup> 1617 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 6 months from date of shipment (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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