

Advanced Materials**Epocast[®] 1618-A/B****EPOXY SYNTACTIC**

- Quick Setting
- Self Extinguishing
- Pumpable

DESCRIPTION :

Epocast[®] 1618-A/B epoxy syntactic is a low-viscosity, self-extinguishing compound for potting fasteners in honeycomb structures. The lightweight epoxy is easy to extrude through a 1/8 in.(3mm) nozzle orifice, but is non-flowing after application. Epocast[®] 1618-A/B epoxy syntactic sets quickly at room temperature and is qualified to BMS 5-28, Type 18.

TYPICAL PROPERTIES AS RECEIVED :

<u>Property</u>	<u>1618-A Resin</u>	<u>1618-B Hardener</u>	<u>1618-A/B System</u>	<u>Test Method</u>
Color	Off-white	Amber	Off-white	Visual
Specific gravity	0.60	1.00	0.70	ASTM-D-1622
Viscosity, cP at 77°F (25°C)	Paste	400	Paste	ASTM-D-2196
Gel time, 57 gms at 77°F (25°C), minutes	--	--	10 -20	ASTM-D-2471
Shelf life at 77°F (25°C), unopened, months	6	6	--	--

MIX RATIO :

To 100 parts by weight of Epocast[®] 1618-A resin, add 14 parts by weight of Epocast[®] 1618-B hardener. Mix both components thoroughly for several minutes to assure complete blending.

CURE SCHEDULE :

24 hours at room temperature or gel at room temperature plus five 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, Ksi (MPa) at 77°F (25°C)	5.00 (34.5)	ASTM-D-695
Compressive modulus, Ksi (MPa)	350 (2,414)	ASTM-D-695
Tensile lap shear, AL/AL, psi (MPa)	700 (4.8)	ASTM-D-1002
Weight change, 24 hours immersion at 77°F (25°C), %		ASTM-D-543
MIS-S-3136, Type III test fluid	0.3	--
Mil-M-5606 hydraulic fluid	0.4	--
Skydrol 500-A	0.6	--
Distilled water	1.5	--
Flammability	self extinguishing	--

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 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**FOR PROFESSIONAL AND INDUSTRIAL USE ONLY**

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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