

**Advanced Materials****Epocast<sup>®</sup> 1629-A/B****EPOXY SYNTACTIC**

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

**DESCRIPTION :**

Epocast<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 87005 A/B-80 epoxy syntactic, Epocast<sup>®</sup> 87005 A/B-60 epoxy syntactic, Epocast<sup>®</sup> 87269 A/B epoxy syntactic, Epocast<sup>®</sup> 87005 A/B-61 epoxy syntactic, and Epocast<sup>®</sup> 87005 A/BE- 60 epoxy syntactic.

**TYPICAL PROPERTIES AS RECEIVED :**

| <b><u>Property</u></b>                   | <b><u>1629-A<br/>Resin</u></b> | <b><u>1629-B<br/>Hardener</u></b> | <b><u>1629-A/B<br/>System</u></b> | <b><u>Test Method</u></b> |
|--|--------------------------------|-----------------------------------|-----------------------------------|---------------------------|
| 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               |

**MIX RATIO :**

To 100 parts by weight of Epocast<sup>®</sup> 1629-A resin, add 50 parts by weight of Epocast<sup>®</sup> 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)

| <b>Test</b>   | <b>Result</b>                 | <b>Test Method</b> |
|---|-------------------------------|--------------------|
| 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),<br>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:**

Epocast<sup>®</sup> 1629-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 (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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