

EPOCAST® 1628-A/B

- Ultra Low Density Syntactic
- Self Extinguishing
- Extrudable, Non Sag

DESCRIPTION

Epocast 1628-A is a soft white paste to be blended with Epocast 1628-B, a soft yellowish paste to form an ultra low density epoxy syntactic system for edge reinforcing of honeycomb structures. It may be extruded from pneumatic equipment or spread with a putty knife or trowel to fill honeycomb core sections or edges of composite sandwich constructions. It can be easily sanded or machined after cure. Qualified to BMS 5-28, Type 28.

TYPICAL PROPERTIES AS RECEIVED

| <u>Property</u> | <u>1628-A</u> | <u>1628-B</u> | <u>1628-A/B</u> | <u>Test Method</u> |
|--------------------------------------|---------------|---------------|-----------------|--------------------|
| Color | White | Yellow | Pale yellow | Visual |
| Density, g/cc | 0.45 | 0.52 | 0.48 | ASTM-D-1622 |
| Viscosity, centipoise | Paste | Paste | Paste | ASTM-D-2196 |
| Gel time, 60 gms at 77°F, minutes | -- | -- | 65 | ASTM-D-2471 |
| Shelf life at 77°F, unopened, months | 6 | 6 | -- | FTM-204 |

MIX RATIO

To 100 parts by weight of Epocast 1628-A, add 25 parts by weight of Epocast 1628-B. Mix both components thoroughly for several minutes to insure complete and uniform mixing.

CURE SCHEDULE: 48 hours at 77°F, or gel at room temperature plus 5 hours at 125°F.

TYPICAL CURED PROPERTIES (Not for specification purposes)

| <u>Test</u> | | <u>Result</u> | <u>Test Method</u> |
|--|-----------------|---------------|--------------------|
| Compressive strength, Ksi at 77°F | | 2.80 | ASTM-D-695 |
| Compressive modulus, Ksi at 77°F | | 230 | -- |
| Tensile lap shear, etched AL/AL, psi | | 800 | ASTM-D-1002 |
| Flammability, 60 second vertical; | Extinguish Time | 0 seconds | FAR 25.853 |
| | Burn Length | 3.0 inches | |
| Weight gain on immersion after 24 hours at 77°F, % | | | ASTM-D-543 |
| Mil-S-3136, Type III test fluid | | 1.5 | -- |
| Mil-M-5606, hydraulic fluid | | 2.5 | -- |
| Skydrol 500-A | | 3.5 | -- |
| Distilled water | | 3.4 | -- |

PACKAGING & SHIPPING INFORMATION

Epocast 1628-A is a nonrestricted article. Epocast 1628-B is a corrosive material.

ENVIRONMENTAL INFORMATION

When used properly, this material is safe to handle and poses no environmental hazard. Spills should be contained with absorbent material and transferred to a closed container for disposal. Unreacted components should be handled carefully. Observe all precautionary statements that appear on the product label. Users should investigate all applicable waste regulations before disposal. For professional and industrial use only.

CLEANLINESS & SAFETY

EPOCAST 1628-A

WARNING! CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION AND POSSIBLE ALLERGIC SKIN REACTION. HARMFUL IF INHALED. HARMFUL IF SWALLOWED. Avoid contact with eyes, skin or clothing. Wear eye protection and impervious gloves when handling. Avoid breathing vapor or mist. Keep container closed when not in use. Do not take internally.

FIRST AID! Eyes and Skin: Flush eyes with water for 15 minutes and get prompt medical attention. 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.

EPOCAST 1628-B

DANGER! CORROSIVE CAUSES EYE AND SKIN BURNS AND POSSIBLE ALLERGIC SKIN REACTION. VAPOR IRRITATING TO EYES, SKIN AND NASAL MUCOUS MEMBRANES. HARMFUL IF INHALED. HARMFUL IF SWALLOWED. Do not get in eyes, on skin or on clothing. Wear impervious gloves and splash goggles when handling. Wash thoroughly after handling. Avoid breathing the vapors. Keep container closed when not in use. Use with adequate ventilation. Do not take internally.

FIRST AID! Eyes and Skin: Flush eyes with plenty of water for 15 minutes and get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse. Destroy contaminated shoes and other articles made of leather. 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.

IN CASE OF FIRE: Use water spray, dry chemical or carbon dioxide extinguisher.

KEEP OUT OF REACH OF CHILDREN

Ciba Specialty Chemicals, Performance Polymers, 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.

IMPORTANT: The following supercedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.
