**FAST INFUSION EPOXY – A-298/B-224**

**Description:**
Fast Infusion Epoxy is a two-component, very low viscosity, fast curing system developed specifically for use in resin infusion and VARTM processes. Fast Infusion Epoxy was formulated to provide for rapid saturation of carbon fiber laminate, fiberglass and Kevlar. Processability parameters are enhanced due to Fast Infusion Epoxy’s low mixed viscosity and wet-out potential. This system is not designed to be used in open mold applications.

**Handling Properties:**
- **RESIN VISCOSITY, cP:** 1,044
- **RESIN DENSITY, lb./gal:** 9.49
- **HARDENER VISCOSITY, cP:** 43
- **HARDENER DENSITY, lb./gal:** 7.79
- **COLOR:** Clear/Lt. Straw
- **DENSITY, lb./gal:** 9.07
- **MIX RATIO, pbv (pbw):** 3/1 (3.65/1)
- **MIXED VISCOSITY, cP:** 288
- **GEL TIME (200g), min:** 32
- **WORKING TIME*, min:** 25

*The working time varies according to the temperature of the air, the epoxy and the surface to which it is applied.

Note: Above viscosities/densities measured @ 77°F.

**Physical Properties:**
- **TENSILE STRENGTH, psi:** 11,000
- **TENSILE MODULUS, psi:** 276,000
- **ELONGATION @ BREAK, %:** 4.33
- **COMPRRESSIVE STRENGTH, psi:** 14,200
- **COMPRRESSIVE MODULUS, psi:** 270,000
- **FLEXURAL STRENGTH, psi:** 18,400
- **FLEXURAL MODULUS, psi:** 1,087,000
- **HARDNESS, Shore D:** 87D

Cure Cycle: 24 hours @ Room Temperature + 8 hours @ 180°F. Test specimens for above were neat epoxy (without fiber reinforcement).

**Thermal Properties:**
- **Tg DMA Peak Tan Delta, °F (°C)*:** 221 (105)
- **Tg DMA Onset Storage Modulus, °F (°C)*:** 189 (87)
- **Heat Deflection Temperature, °F (°C):** 181 (82.5)
- **Tg DSC Ultimate:** 202 (94.6)

*1 Hz, 3°C per minute.

Cure Cycle: 24 hours @ Room Temperature + 4 hours @ 250°F.
Mixing:
The storage temperature of Fast Infusion Epoxy will greatly affect the ease of mixing, application and curing time. For best results, Fast Infusion Epoxy should be stored at (60-80 °F or 16-27 °C) for at least 24 hours before use. Mix RESIN WITH (hardener) for 3 minutes using a Jiffy Mixer and a slow speed drill. Mix at slow speed (less than 500 rpm) to avoid air entrainment. When adding part B to part A, be sure to scrape the sides of the hardener (part B) container in order to remove all of the hardener. This is essential to maintain proper mix ratio. DO NOT mix more material than can be used within the stated working time. REMEMBER - you will have less working time at higher temperatures.

SAFETY PRECAUTIONS

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymers, sanding) may cause high vapor concentrations. DO NOT WELD ON, BURN OR TORCH ON OR NEAR, ANY EPOXY MATERIAL. HAZARDOUS VAPOR IS RELEASED WHEN AN EPOXY IS BURNED.

WARRANTY AND DISCLAIMER

Copps Industries, Inc. gives no warranty, express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product. Copps Industries, Inc. shall be in no way responsible for the proper use and service of the product. The information given in this publication is considered to be accurate and reliable and is provided as a service only. Physical properties shown are typical. Actual properties are dependent on curing conditions and degree of cure. Any information or suggestions given are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

TB#XXXX (05/20/2019)