

## 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 RESIN DENSITY, lb./gal HARDENER VISCOSITY, cP HARDENER DENSITY, lb./gal COLOR DENSITY, lb./gal MIX RATIO, pbv (pbw) MIXED VISCOSITY, cP GEL TIME (200g), min WORKING TIME*, min *The working time varies according to the temper Note: Above viscosities/densities measured @ 77		ASTM D 2196 ASTM D 792 ASTM D 2196 ASTM D 792 ASTM D 792 ASTM D 2196 ASTM D 2471 surface to which it is applied.
Physical Properties:	TENSILE STRENGTH, psi TENSILE MODULUS, psi ELONGATION @ BREAK, % COMPRESSIVE STRENGTH, psi COMPRESSIVE MODULUS, psi FLEXURAL STRENGTH, psi FLEXURAL MODULUS, psi HARDNESS, Shore D Cure Cycle: 24hours @ Room Temperature + 8 ho (without fiber reinforcement).	11,000 276,000 4.33 14,200 270,000 18,400 1,087,000 87D urs @ 180°F. Test specimens for al	ASTM D 638 ASTM D 638 ASTM D 638 ASTM D 695 ASTM D 695 ASTM D 790 ASTM D 790 ASTM D 2240
Thermal Properties:	Tg DMA Peak Tan Delta, °F (°C)* Tg DMA Onset Storage Modulus, °F (°C)* Heat Deflection Temperature, °F (°C) Tg DSC Ultimate *1 Hz, 3°C per minute. Cure Cycle: 24 hours @ Room Temperature + 4 ho	221 (105) 189 (87) 181 (82.5) 202 (94.6) Durs @ 250°F.	ASTM E 1640 ASTM E 1640 ASTM D 648 ASTM E 1356

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 70-80°F (21-27°C). High-performance epoxy resins may crystallize with repeated exposure to low temperatures or thermal cycling during storage. If this occurs, warm the resin to 140-160° F and stir to dissolve any crystals or solidified material. 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.** 

## FOR INDUSTRIAL USE ONLY

## 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.



10500 N. Commerce Street •. Mequon, WI 53092-4473 262-238-1700 www.coppsindustries.com TB#XXXX (06/06/2024)