

CONAPOXY® FR-1830

RoHS COMPLIANT

UL RECOGNIZED

CONAPOXY FR-1830 is an ambient cure, two-component, low viscosity, flame retardant epoxy potting, casting, and coating system with excellent handling properties. CONAPOXY FR-1830 contains a non-abrasive filler to reduce wear on machine metering/dispensing equipment. CONAPOXY FR-1830 is recognized to UL 94V-0 and is RoHS compliant. Products produced using CONAPOXY FR-1830 can be shipped into the European Union, however shipment into the EU of uncured part A and part B is restricted.

TYPICAL PRODUCT CHARACTERISTICS

	Resin PART A	Curative PART B
Viscosity @ 25°C	14,000 cps	85 cps
Specific Gravity	1.59	0.965
Color	Black	Amber

PROCESSING PARAMETERS

Mix ratio by weight, Resin/Hardener	100:20
Mix ratio by volume, Resin/Hardener	3:1
Initial mixed viscosity @ 25°C, cps	2190
Work life @ 25°C to reach 100,000 cps, 150 gm mass, minutes	50
Full cure @ 25°C for maximum properties, hours	24-36
Alternate Cure @ 60°C, hours	3-4
Maximum Exotherm, 225 gm mass, °C, (°F)	73 (164)

TYPICAL CURED PROPERTIES

Color	Black
Hardness, Shore D	80-85
Tensile strength, psi	5200
Linear shrinkage, in/in.	0.00067
Moisture absorption, 24 hr. immersion, %	0.34
Flammability, UL Recognized, 4.8 mm	94V-0
Thermal Conductivity, w/mk	0.4917

Electrical Properties

	25°C
Dielectric Constant @ 100 Hz	4.40
@ 1KHz	4.14
@ 1 MHz	3.79
Dissipation Factor @ 100 Hz	0.035
@ 1 KHz	0.017
@ 1 MHz	0.019
Volume Resistivity – ohm-cm	6.9 x 10 ¹⁴
Surface Resistivity – ohm	2.0 x 10 ¹⁵
Dielectric Strength, vpm	510

HANDLING AND STORAGE INSTRUCTIONS

CONAPOXY FR-1830 has a shelf life of 18 months from date of manufacture when stored in the original unopened containers at 70°F-85°F. CONAPOXY FR-1830 Part A contains filler which may settle during storage. It is recommended that the components be thoroughly mixed before use.

CAUTION

Responsible handling of Cytec Industries Inc. products requires a thorough preview of safety, health, and environmental issues prior to use. Review the Material Safety Data Sheet(s) for the specific Cytec Industries Inc. product(s) and container label information before opening containers. Ensure that employee exposure issues are understood, communicated to all workers, and controls are in place to prevent exposures above Permissible Exposure Limits (P.E.L.'s). Review safety and environmental issues to be certain controls are in place to prevent injury to employees, the community, or the environment, and ensure compliance with all applicable Federal, State, and Local laws and regulations. For assistance in this review process, please call your Cytec Industries Inc. representative or our office noted below.

www.cytec.com/conap

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