



Epoxy.com Product #1700

Electrical Encapsulating & Casting Epoxy

DESCRIPTION

Product #1700 Electrical Encapsulating & Casting Epoxy is a two component 100% Solid epoxy compound used as an electrical encapsulation material where ease of use and high electrical resistivity are needed. Product #1700 Electrical Encapsulating & Casting Epoxy is a low viscosity, low odor material with a pourable viscosity. Electrical Encapsulating & Casting Epoxy has a convenient 1 to 1 by volume mix ratio and a long pot life. Product #1700 Electrical Encapsulating & Casting Epoxy has a very low exotherm on curing allowing for large parts with extremely low shrinkage.

WHERE TO USE

INDUSTRY - potting material for motor windings and electrical components.

UTILITIES - transformer bases, electric generators, and turbines.<

TRANSPORTATION - grout pads under electrical transformers and train control equipment, anchor bolting electrical equipment, leveling grout under electrical equipment.

CASTING RESIN - a general purpose casting resin, where an opaque black is desirable.

PROPERTIES

Color	Black, opaque
Mix Ratio	1A to 1B By volume
Gel Time	200 minutes
Peak Exotherm 150 gram mass	125 F
Viscosity @ 75 F	1000 Cps
Handling time	24 hours
Cure Schedule	7 days at room temp
Specific gravity Cured	1.34
Compressive Strength - 7 days	12000 psi

<u>Electrical Properties:</u>	
Dielectric Strength, S/T, Volt per Mil	420-450
Dielectric Constant:	
60 HZ	3.4-3.5
10 ⁶ HZ	3.3-3.4
Power Factor:	
60 HZ	0.006-0.007
10 ⁶ HZ	0.03-0.04
Volume Resistivity (ASTM D-257)	1 x 10 ¹³
For improved properties cure @ 220 F for 2 hours.	

SURFACE PREPARATION

Proper preparation of the substrate is essential for good bond. Substrate must be both clean and sound. Remove laitance, oils, and greases by solvent wiping. When bonding steel based plates sandblast the bottom of base plate and wipe clean with an approved metal-cleaning solvent, where necessary.

MIXING

For ease of handling, condition Product #1700 Electrical Encapsulating & Casting Epoxy to a minimum temperature of 70°F before mixing. Mix Ratio 100 parts A Component to 125 parts B component by weight (1 to 1 by volume). Mix components together well for 2 to 3 minutes in a non absorbent container large enough to allow decent mixing. Scrape sides and bottom to ensure thorough mixing. Avoid entrapping air, let set for 10 minutes to release air then pour in place. Automatic dispensing equipment may be utilized.

APPLICATION

Product #1700 Electrical Encapsulating & Casting Epoxy may be cast in single or multiple lifts, up to 4 inches thick. If multiple pours are done material must be placed within 72 hours.

Clean equipment with MEK, xylene, Acetone other approved solvent.

PACKAGING:

Product #1700 Electrical Encapsulating & Casting Epoxy is conveniently packaged in 1 gallon or five gallon containers.

COVERAGE:

231 cubic inches per gallon. At 1/8 inch thick 12.8 SF Per gallon.

CAUTION: Product #1700 Electrical Encapsulating & Casting Epoxy contains epoxy resins and organic amines. May cause skin sensitization or other allergic responses. Avoid inhalation of vapor. Use with good ventilation. Prevent contact with skin and eyes. If eyes are contacted, flush immediately with water and contact a physician. Skin contact wash thoroughly with soap and water.

FOR INDUSTRIAL USE ONLY KEEP AWAY FROM CHILDREN

For more information please contact:

Epoxy.com.

352-489-1666 (Phone)

352-465-3497 (Fax)

info@epoxy.com

www.epoxy.com

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