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120-27

BLACK, EPOXY POTTING COMPOUND

DESCRIPTION: 120-27 is a black, low viscosity, two component, epoxy potting and encapsulating compound. Product is designed to release entrapped air rapidly during cure, resulting in a smooth, pinhole free surface. 120-27 provides a combination of low viscosity, minimal shrinkage and high temperature resistance. 120-27 exhibits near Newtonian Behavior.

	<u>Part A</u>	<u>Part B119-44</u>	<u>Mixture</u>
Appearance:	Black	Amber	Black
Mix Ratio (By Weight):	100	6	-----
Pot Life (130 gram mass):	-----	-----	> 4 days.

MIXING INSTRUCTIONS: Premix Part A in original container prior to adding curing agent. Add Part B to Part A and mix until uniform. **NOTE:** Due to the purity of the materials it is not unusual for crystallization of the part A and or part B to occur. Warm to 40-45°C in a water bath to return the material to it's original viscosity. The crystallization of the resin and or catalyst does not affect the performance of the product in any way.

CURING INSTRUCTIONS:

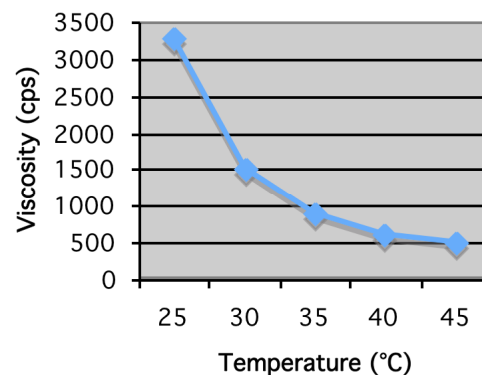
Handling Properties:	1 hour @ 80°C
Full Cure:	1 hour @ 80°C + a post cure of 1hr @ 125°C

NOTE: This product is designed for use in small masses only. Do not cure in amounts exceeding 5.0 grams per unit. Do not deviate from cure schedule noted.

TYPICAL CURED PROPERTIES:

Hardness (Shore D)	90
Coef. of Therm. Exp. (ppm/°C)	49
Cure Shrinkage (%)	<0.97
Heat Distortion Temp. (°C)	155
Tensile Strength (psi)	10,700
Water Absorption (%)	< 0.20
Dielectric Strength (volts/mil)	475
Volume Resistivity (ohm-cm)	1 x 10 ¹⁵
Power Factor (60 HZ)	0.028
Dielectric Constant (@ 60 HZ)	4.3

VISCOSITY LIQUID MATERIAL VS TEMPERATURE:
 *(Catalyzed Material)



STORAGE: Shelf life: 12 months at 25°C, in unopened, unmixed containers.

SAFETY & HANDLING: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to results or possible infringements on patents.

REVISION DATE: 7/01/11 REVISION: D