



Creative Materials, Inc.  
12 Willow Road  
Ayer, MA 01432

T 978.391.4700  
F 978.391.4705

**121-31A/B-187****LOW DENSITY, HIGH TEMPERATURE RESISTANT, LOW SHRINKAGE, EPOXY  
POTTING COMPOUND**

**DESCRIPTION:** 121-31 is a low density, high temperature resistant, low shrink, syntactic foam, two component, epoxy potting and encapsulating compound. Product is designed to release entrapped air rapidly during cure, resulting in a smooth, pinhole free surface. 121-31 provides a combination of low density, minimal shrinkage and high temperature resistance.

	<u>Part A</u>	<u>Part B-187</u>	<u>Mixture</u>
Appearance:	Black	Amber	Black
Viscosity:			35,000 cps
Mix Ratio (By Weight):	100	4	---
Pot Life 100 gram mass:	---	---	> 2 Hours.

**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 its original viscosity. The crystallization of the resin and or catalyst does not effect the performance of the product in any way.

**CURING INSTRUCTIONS:**

Handling Properties:	2 hours @ 60°C
Full Cure:	16 hrs.@ 60°C + post cure of 2hrs.@ 90°C

**TYPICAL CURED PROPERTIES:**

Specific Gravity (gr./cc.)	0.96
Hardness (Shore D)	85 (min.)
Coef. of Therm. Exp. (in/in/°C x 10 <sup>-8</sup> )	58
Cure Shrinkage (%)	<0.17
Heat Distortion Temp. (°C)	155
Tensile Strength (psi)	6,250
Water Absorption (%)	< 0.20
Dielectric Strength (volts/mil)	475
Volume Resistivity (ohm-cm)	1 x 10 <sup>15</sup>
Power Factor (@ 60 HZ)	0.028
Dielectric Constant (@ 1 MHz)	3.0

**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: 9/26/00 REVISION: A