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## 117-38

### **PAD-PRINTABLE, FLAME RESISTANT, SOLDER MASK**

**DESCRIPTION:** 117-38 is a green, pad-printable, one component, flame resistant, epoxy, solder mask. This product features excellent adhesion to Kapton, Mylar, aluminum, FR-4 boards, glass and a variety of other substrates. Unlike conventional dielectric materials, this product is very resistant to abrasion, scratching, and thermal aging. Applications for 117-38 include, but are not limited to, solder resistant coatings for electrical and electronic devices. 117-38 is designed for pad-printing onto contoured surfaces, when a UL 94 V-O flame retardency is required.

#### **TYPICAL PROPERTIES:**

Viscosity (cps)	10,000-12,000
Dielectric Strength (Volts/mil)	1300
Dielectric Constant (100Hz)	4.0
Volume Resistivity (ohm-cm)	$1 \times 10^{16}$
Pencil Hardness	6H (min.)
Glass Transition Temperature (°C)	160
Hydrolytic Stability	Excellent

**SUGGESTED HANDLING AND CURING:** 117-38 is ready to use as supplied. Prior to using, be certain to re-suspend filler. Further thinning may be accomplished by adding small amounts of CMI Thinner # 113-39. Best properties, for most applications, result when cured for 1 hour at 125°C, or 30 minutes at 150°C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 125°C to 185°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf life: 2 months at 25°C; or 6 months at -10°C.

**SAFETY AND 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.*

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