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## 118-02

### PAD- PRINTABLE, FLEXIBLE, DIELECTRIC COATING

**DESCRIPTION:** 118-02 is a flexible, electrically insulating coating suitable for application by pad printing, spraying, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, glass, and a variety of other surfaces. Unlike conventional insulating materials, this product is very resistant to flexing and creasing. Some applications for 118-02 include, but are not limited to, ribbon cables, polyimide flexible circuits, polymer thick film circuitry, and membrane switches.

#### **TYPICAL CURED PROPERTIES:**

Viscosity (cps)	10,000 - 12,000
Crease Resistance	Excellent
Volume Resistivity ( $\Omega$ -cm)	$1.1 \times 10^{14}$
Dielectric Strength (volts/ mil)	1300
Dissipation Factor (100 Hz)	0.013
Dielectric Constant (100 Hz)	4.2
Moisture Vapor Transmission	Low

**SUGGESTED HANDLING & CURING** Stir well before using. 118-02 is ready to use as supplied for spray and/or dip coating. Additional thinning may be accomplished by adding CMI #114-20(slow drying), or #113-39(fast drying) thinner. Good properties for most applications result when cured of 5 minutes at 130°C. Good properties are also obtained on a variety of substrates by curing at temperatures ranging from 25°C to 175°C. NOTE: Add 1phr B-187 catalyst when using low temperature cures. The use of B-187 is suggested to impart a high degree of chemical resistance. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf Life: 3 months at 25°C; or 6 months at 5°C; or 12 months at -10°C

**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. Keep containers closed to avoid contamination. If stored frozen allow containers to warm to room temperature, and thoroughly wipe off any condensation before opening.

*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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