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## 116-20

### SCREEN-PRINTABLE, SOLVENT RESISTANT, FLEXIBLE, ULTRAVIOLET CURABLE, COATING

**DESCRIPTION:** 116-20 is a screen-printable, solvent resistant, flexible, ultraviolet- cured dielectric coating that is used as a protective, insulating layer over, or between, polymer thick film conductive inks in the manufacture of membrane switches, and flex circuits. This coating can be used on a variety of substrates such as polycarbonate, treated and untreated polyesters, Kapton, epoxy/glass PC boards, glass and Indium Tin Oxide sputtered surfaces. A void-free coating is obtained that has good resistance to humidity, temperature and solvents. 116-20 is designed for use in crossovers with various CMI's conductive inks, including: 118-09, 114-01 and 116-19.

#### **PROPERTIES:**

Color	Clear
Dielectric Strength (volts/mil)	365
Volume Resistivity (ohm-cm)	$7.1 \times 10^{15}$
Dielectric Constant (1 kHz)	4.3
Dielectric Factor (60 Hz)	0.018
Solids Content (%)	100
Specific Gravity	1.06
Coverage @ 1 mil. (ft <sup>2</sup> /gal.)	1600

**SUGGESTED HANDLING & CURING:** Material is ready to use as received. Cure using a 200-300 watt/inch mercury vapor lamp. Speed of cure will vary depending upon available energy. Typical cure time ranges from a few seconds to 1minute when work is positioned 6-10 inches from lamp. Faster curing can be accomplished by moving lamp closer to work or increasing lamp intensity. When applying two layers, it is sometimes desirable to undercure the first layer so as to improve interlayer adhesion.

**STORAGE:** Shelf Life: 6 months at 25°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.