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119-39

DIELECTRIC INK, COATING & ADHESIVE

DESCRIPTION: 119-39 is a green, flexible, electrically insulating ink, coating and adhesive suitable for application by stamping, screen printing, 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 119-39 include, but are not limited to, insulating polyimide flexible circuits, polymer thick film circuitry, and membrane switches. 119-39 is a green version of CMI# 113-35.

TYPICAL CURED PROPERTIES:

Consistency	Thick Liquid
Crease Resistance	Excellent
Volume Resistivity (Ω -cm)	1×10^{11}
Dielectric Strength (volts/ mil)	525
Hardness (Shore D)	60
Tensile Strength (psi)	6500
Tear Resistance (lbs./in)	> 300
Moisture Vapor Transmission	Low
Glass Transition Temperature ($^{\circ}$ C)	15

SUGGESTED HANDLING & CURING: 119-39 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner # 102-03 and/or butyl cellosolve acetate. Best properties for most applications result when cured for several minutes at 150 $^{\circ}$ C to 180 $^{\circ}$ C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 180 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 6 months at 21 $^{\circ}$ 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.