CREATIVEMATERIALS

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ISO 9001 CERTIFIED

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113-48

DIELECTRIC INK, COATING & ADHESIVE

DESCRIPTION: 113-48 is an extremely 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 113-48 include, but are not limited to, insulating polyimide flexible circuits, polymer thick film circuitry, and membrane switches. 113-48 is a crosslinking version of 104-38.

TYPICAL CURED PROPERTIES:

Consistency	Thick Liquid
Crease Resistance	Excellent
Volume Resistivity (Ω-cm)	1×10^{11}
Dielectric Strength (volts/ mil)	525
Hardness (Shore D)	55
Tensile Strength (psi)	6500
Tear Resistance (lbs/in)	> 300
Moisture Vapor Transmission	Low

SUGGESTED HANDLING & CURING: 113-48 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner # 102-03 and/or butyl cellosolve acetate. Best properties for most applications result when cured using a 200-300 watt/inch mercury vapor lamp, followed by a post cure for several minutes at 150°C to 180°C.Typical cure time varies from a few seconds to a minute, depending on the amount of energy available. Good properties are obtained on a variety of substrates by curing using a 200-300 watt/inch mercury vapor lamp, followed by a post cure for at temperatures ranging from 50°C to 180°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 6 months at 25°C, when kept in a sealed opaque container.

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.

REVISION DATE: 8/9/96 REVISION: A