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101-53

SOLVENT RESISTANT, FLEXIBLE, UV COATING

DESCRIPTION: 101-53 is a solvent resistant, flexible, ultraviolet-cured dielectric coating that is used as a protective, insulating layer over 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 and glass. A smooth, void-free coating is obtained that has good resistance to humidity, temperature and solvents, such as MEK, and acetone.

PROPERTIES:

Color	Blue
Dielectric Strength (volts/mil)	365
Volume Resistivity (ohm-cm)	7.1×10^{15}
Dielectric Constant (1 kHz)	4.3
Dielectric Factor (60 Hz)	0.018
Solids Content	100%
Specific Gravity	1.2
Coverage @ 1 mil. (ft ² /gal.)	1600

SUGGESTED HANDLING & CURING: Material is ready to use as received. Store at low temperature to maintain consistent flow properties. Allow material to warm up to room temperature before opening container. 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. When applying two layers, it is sometimes desirable to undercure the first layer so as to improve interlayer adhesion.

STORAGE: Shelf Life: 3 months at 25°C; or 6 months at 5°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.

REVISION DATE: 10/19/94 REVISION: A