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117-34

100,000 OHM/SQUARE INK & COATING

DESCRIPTION: 117-34 is a carbon-based, electrically conductive 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 conductive materials, this product is very resistant to flexing and creasing. Some applications for 117-34 include, but are not limited to, polymer thick film circuitry, membrane switches, electrical attachments and static elimination. 117-34 can be blended with CMI's 112-48 (20 ohm/square) and 112-15 (0.01 ohm/square) in any ratio to obtain intermediate electrical conductivity.

TYPICAL CURED PROPERTIES:

| | |
|-------------------------------|--------------|
| Consistency | Smooth Paste |
| Filler | Carbon |
| Crease Resistance | Excellent |
| Volume Resistivity (ohm-cm) | 250 |
| Sheet Resistivity (ohm/sq) | 100,000 |
| Solderable | No |
| Hydrolytic Stability | Excellent |
| Useful Temperature Range (°C) | -55 to +200 |
| Thermal Stability (°C) | Good to 325 |

SUGGESTED HANDLING AND CURING: 117-34 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner # 112-19. Best properties, for most applications, result when cured for 3-5 minutes at 110°C to 125°C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 50°C to 150°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 6 months at 21°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: 12/6/95 REVISION: A