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## 120-05

### OPTICAL HARD COAT AND DIELECTRIC

**DESCRIPTION:** 120-05 is an optically clear coating suitable for application by screen-printing. This system is designed to maintain stable viscosity during all application methods and has a low odor. The product features excellent adhesion to Kapton, Mylar, glass and a variety of other substrates. Unlike conventional optical materials, this product is very resistant to abrasion, scratching and thermal aging. Some applications for 120-05 are the coating of optical lenses, applying clear coat finishes, and any other application where high visibility is needed in conjunction with scratch resistance. 120-05 is a higher viscosity screen-printable version of 108-36.

#### **TYPICAL CURED PROPERTIES:**

Viscosity (cps)	25,000 - 30,000
Scratch Resistance	Excellent
Hydrolytic Stability	Excellent
Volume Resistivity	$1 \times 10^{15}$
Useful Temperature Range (°C)	-55 to 200
Thermal Stability (°C)	Good to 325

**SUGGESTED HANDLING & CURING:** 120-05 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI Thinner #203. Good properties, for most applications, result when cured for 20 minutes at 125°C. For improved properties a slightly longer cure is recommended. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50°C to 150°C. End user is advised to determine experimentally, temperature and time best suited for individual applications.

**STORAGE:** Shelf life: 3 months at 25°C; or 6 months at 5°C; or 12 months at -10°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.

*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.*

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