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ENGINEERING DATA SHEET FLUOROPOLYMER OVERCOAT FO-121-C

FO-121-C is a transparent modified fluoropolymer coating used for electronic circuit and component protection. This material, when properly cured, yields a chemically inert film which helps to prevent the effects of corrosion, moisture, oxidation, abrasion, and thermal shock. Primary applications include the overcoating of flexible and rigid circuit boards, solar cells, and EL lamp devices. The cured film exhibits outstanding moisture resistance and provides reliable electrical insulation.

COMPOSITION PROPERTIES:

Color Clear

Viscosity* 2-10 Kcps (Brookfield RVT, Spin #7, 20 rpm, 25°C)

Cure Schedule 10 minutes @ 120°C or 24 hours @ 25°C

Service Temperature -100 to 110°C Dielectric Breakdown > 635 volts/mil

Dielectric Constant 8

Insulation Resistance $> 1 \times 10^{14}$ Thermal Conductivity 0.24 W/m-K

Thinner** PC, DPM, MEK, or Tolulene

Shelf Life 6 months @ 25°C (sealed container)

- * FO-121-C is optimized for doctor blade applications and thinning is not normally necessary. However, thinner may be added, with thorough blending, to replace solvent loss or to make slight adjustments for ease of application. In handling and using organic solvents, the safety precautions recommended in the MSDS should be observed.
- ** Recommended formulas to cut for spray applications.

OPTIONS:

FO-121-C / MEK
 Ratio: 75/25
 Viscosity: 325 cps ± 25
 FO-121-C / MEK-TOLULENE MIX
 Ratio: 75/25
 Viscosity: 500 cps ± 25

• FO-121-C / Tolulene Ratio: 75/25 Viscosity: 750 cps ± 25

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