



Creative Materials, Inc.
12 Willow Road
Ayer, MA 01432

T 978.391.4700
F 978.391.4705

126-21A/B

SOLVENT-RESISTANT ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 126-21A/B is a two component, solvent-resistant, electrically conductive ink, coating and adhesive suitable for screen-printing circuit lines. 126-21A/B can also be thinned with fast evaporating solvents such as MEK for spray application. This product features excellent adhesion to Kapton, Mylar, glass, polycarbonate and a variety of other substrates. Unlike conventional conductive materials, this product is very resistant to methyl ethyl ketone after curing even at low temperatures. It is also very resistant to scratching and creasing. Some applications for 126-21A/B include, but are not limited to, emi/rfi shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical terminations for surface mounted devices, and bus bars on Indium Tin Oxide (ITO) sputtered surfaces.

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|-------------------------------|---------------|------------------|-------------------|
| MIX RATIO (by weight): | Part A | B119-44 | B-187 |
| | 100 | 2.0 | 2.0 |
| | | Pot Life: 4 Days | Pot Life: 8 hours |

MIXING INSTRUCTIONS: Premix EXP 126-21 Part A, in original container prior to adding curing agent. Add B119-44 or B-187 curing agent and mix until uniform. At this point, the material may be adjusted by adding small amounts of 113-12 thinner for printing or diluted with MEK for spray application.

TYPICAL CURED PROPERTIES:

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|---------------------------------|----------------|
| Consistency | Smooth Paste |
| Filler | Silver complex |
| Crease Resistance | Excellent |
| Volume Resistance | 0.000125 |
| Sheet Resistivity (ohm/sq./mil) | 0.05 |
| Solderable | No |
| Hydrolytic Stability | Excellent |
| Useful Temperature Range (°C) | -55 to 250 |
| Thermal Stability (°C) | Good to 325 |

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|-----------------------------------|----------------|--------------|
| RECOMMENDED CURE SCHEDULE: | B119-44 | B-187 |
| 70°C | N/A | 2-4 Hours |
| 80°C | 2-4 Hours | 1-2 Hours |
| 100°C | 1-2 Hours | 30-60 Min |
| 125°C | 20 Min | 15-20 Min |

STORAGE: Shelf life: 6 months at 25°C, in unopened, unmixed containers.

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. **Note:** It is not unusual for crystallization of B119-44 or B-187 to occur. Warm to 40-45°C in a water bath to return the material to its original viscosity. The crystallization does not affect the performance of the product in any way. To prevent re-crystallization, store the catalyst at temperatures between 35-45°C.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either implied or expressed with respect to results or possible infringements on patents.

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