121-20

ANISOTROPICALLY CONDUCTIVE, LOW TEMPERATURE CURING, EPOXY ADHESIVE

DESCRIPTION: 121-20 is a two component, low temperature curing, silver filled epoxy adhesive. 121-20 is designed to be used for making electrical and mechanical attachments of electrical components and devices, when shorts between closely spaced contact pads are a concern. 121-20 provides for electrical conductivity in the Z-axis while remaining electrically insulating in the X-axis and Y-axis. Unlike typical heat curing systems, this product always results in excellent conductivity and is less sensitive to handling and ambient conditions.

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Part-A</th>
<th>Amber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consistency</td>
<td>Paste</td>
<td>Liquid</td>
</tr>
<tr>
<td>Mix Ratio (by weight):</td>
<td>100</td>
<td>4</td>
</tr>
<tr>
<td>Pot Life:</td>
<td>----</td>
<td>&gt; 48 hours</td>
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</tbody>
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MIXING INSTRUCTIONS: Premix Part -A in original container prior to adding curing agent. Add Part B to Part A and mix until uniform.

CURING INSTRUCTIONS: Best results are obtained when product is cured at a pressure of at least 100-psi with one of the following cure schedules:

- 90 min @ 80°C
- 60 min @ 100°C
- 30 min @ 125°C
- 15 min @ 150°C

TYPICAL CURED PROPERTIES:

- Volume Resistivity (Ω-cm max)
  - Z-axis: 0.0001
  - X, Y axes: 1 x 10^12
- Water Absorption (%): < 0.06
- Tensile Strength (psi): 11,200
- Solvent Resistance: Excellent
- Solderable: No

STORAGE: Shelf life: 12 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.