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125-23A/B119-44 (SD)
SYRINGE DISPENSABLE, ELECTRICALLY CONDUCTIVE, EPOXY, DIE ATTACH
ADHESIVE

DESCRIPTION: 125-23A/B119-44 (SD) is a two component, silver filled, syringe dispensable, 100% solids, electrically conductive, epoxy adhesive. 125-23A/B119-44 (SD) provides for fine pitch resolution, when syringe dispensed, stencil printed, or screen-printed. This system features excellent thermal stability, outstanding chemical resistance and excellent high temperature properties. Applications include adhesives, die attachment, printed circuit board fabrication, advanced material composites, sealing and high performance coatings. 125-23A/B119-44 (SD) provides excellent adhesion to gold plated substrates, as well as tin/lead solder terminated components. 125-23A/B119-44 (SD) is a two component version of 122-38 (SD).

	<u>Part A</u>	<u>Part B119-44</u>
Appearance:	Silver Paste	Yellow liquid
Mix Ratio (by weight):	100	6.7
Pot Life (25°C):	-----	1-2 days

MIXING INSTRUCTIONS: Prior to using, mix Part A container well to re-suspend filler. Carefully weigh Part B into pre-weighed Part A and mix thoroughly until uniform.

CURING INSTRUCTIONS: Cure for 10 minutes at 150°C or 15 minutes at 125°C.

TYPICAL CURED PROPERTIES:

Mixed viscosity (cps)	85,000
Thixotropic Index	>5.0
Filler	Silver
Percent Silver, cured	72
Volume Resistivity, max. (Ω-cm)	0.0002
Thermal conductivity (W/mK)	2.1
Useful Temperature Range (°C)	-55 to +230
Thermal Stability (°C)	Good to 325
Lap Shear Strength (psi)	2100
Glass Transition Temperature, Tg (°C)	98.7
Coef. Of Therm. Exp. (in./in./°C)	
- Below Tg	38.9 x 10 ⁻⁶
- Above Tg	13.9 x 10 ⁻⁵

IONIC CONTENT:

Chloride	<10 ppm.
Sodium	<10 ppm.
Potassium	<10 ppm.

(Typical properties are not intended to be used as specification limits.)

STORAGE: Shelf Life: 12 months at 25°C for Part A and Part B in separate closed containers. Store any unused mixed adhesive at -40°C for maximum shelf life.

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. **Please Note:** It is not unusual for crystallization of the B119-44 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.

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: 3/7/14 REVISION: B