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119-22

SCREEN-PRINTABLE, B-STAGEABLE, THERMALLY CONDUCTIVE, EPOXY ADHESIVE

DESCRIPTION: 119-22 is a screen-printable, B-Stageable, thermally conductive, one part epoxy coating and adhesive. This system features excellent thermal stability. Applications include, adhesives, printed circuit board fabrication, advanced material composites, sealing and high performance coatings.

PROPERTIES:

Coef. of Therm. Exp.(in/in/°C x 10 ⁻⁶)	22
Thermal. Cond. (Btu/hr°F-ft ² /ft)	0.3
Glass Transition Temp. (°C)	100
Lap Shear Strength (psi)	2200
Dielectric Strength (volts/mil)	1300
Volume Resistivity (Ω-cm)	1 x 10 ¹⁶
Dielectric Constant (100Hz)	4.0

SUGGESTED HANDLING AND CURING: Material is ready to use as received. Store frozen to maintain consistent flow properties. Allow material to warm up to room temperature before opening container. As a coating cure for one (1) hour at 125°C, or 30 minutes at 150°C. 119-22 can be thinned with small amounts of CMI# 113-12 thinner.

STORAGE: Shelf Life -2 month at 25°C; or 6 months at -10°C.

B-STAGE PROCEDURE: Apply adhesive to substrate. Next apply heat to advance the curing to the non-tacky stage (when cooled to room temperature. A temperature of 125°C for 1-2 minutes is required (B-Stage time is mass related)). User is encouraged to experiment for optimum drying time at a given temperature. Store on release liner to prevent contamination.

STORAGE B-STAGED FILM: Shelf Life - 1 month @ 25°C; or 3 months @ -10°C

BONDING PROCEDURE: Refer to above for storage information. To use, carefully align parts to be bonded, apply uniform pressure to maintain location. Cure for 30 minutes at 150°C, or 1 hour at 125°C. (Note cure times given are mass related, timing should start after adhesive and substrates reach curing temperature.)

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.