CREATIVEMATERIALS

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ISO 9001 CERTIFIED

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125-49

B-STAGEABLE, WHITE EPOXY ADHESIVE

DESCRIPTION: 125-49 is a screen-printable, B-Stageable, one part epoxy adhesive and coating. This system features excellent thermal stability, thermal cycle resistance and chemical resistance with out yellowing. Applications include lid attach adhesives, printed circuit board fabrication, high reflective coatings, sealing, and high performance electronic component bonding.

PROPERTIES:

Viscosity (10/s, 25°C):		<20,000
Glass Transition Temp. (°C)		>120
Lap Shear Strength (psi.)		2100
Dielectric Strength (volts/mil)		425
Volume Resistivity (ohm-cm)		1×10^{16}
Dielectric Constant (100Hz)		4.0
Useful Temperature Range (°C)		-55 to +230
Thermal Stability (°C)		Good to 325
Coefficient of Thermal Expansion (in/in/°C)	Below Tg:	28.0×10^{-6}
	Above Tg:	12.3×10^{-5}

SUGGESTED HANDLING AND CURING: 125-49 is a one component system and is provided ready to print. Prior to use, mix container well to re-suspend fillers. Reduction of viscosity can be accomplished by adding small amounts of CMI# 102-03 thinner if needed. 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 150°C, or 30 minutes at 175°C..

STORAGE OF CONTAINERS: Shelf Life is 2 months 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 5 -10 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.

SHELF LIFE OF FILM: 2 weeks @ 25°C; or 6 months @ -10°C

BONDING PROCEDURE: To use, carefully align parts to be bonded, apply uniform pressure to maintain location. Cure for 30 minutes at 175°C, or 1 hour at 150°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.

REVISION DATE: 6/21/12 REVISION: A