Stress-Free
One or Two Component
Reworkable
Epoxy Paste Adhesive

IDEAL FOR:

Large Area Die

Substrate/Component

Reworkability

Mismatched CTE's

Solder Replacement

DESCRIPTION:

EG8050 is an electrically conductive, silver filled epoxy which exhibits outstanding flexibility for bonding materials with highly mismatched CTE's (i.e., alumina to aluminum, silicon to copper).

It can be readily reworked at 80-100°C and is ideal for applications such as large area die attach and substrate attach because of it's ability to bond materials with highly mismatched CTE.

AVAILABILITY:

EG8050 is available in syringes for automatic needle dispense applications or in jars. Both viscosity and thixotropic index can be modified to your specific needs. EG8050 can be premixed and frozen.

APPLICATION PROCEDURES:

- (1) Mix adhesive in 1:1 ratio. (Note: In kit form, Viscosity of Part A > Viscosity of Part B)
- (2) Dispense adhesive onto clean substrate.
- (3) Cure according to one of the recommended schedules.

PRIMA-SOLDER

EG8050

TYPICAL PROPERTIES*

Electrical Resistivity	<4x10 ⁻⁴ ohm-cm
(150 °C/ 60 min)	
Dielectric Strength (Volts/mil)	N/A
Glass Transition Temp.(°C)	-20
Current Carrying Capabilities	35 Amp/mm ²
Lap-Shear Strength	1000 psi
	6.9 N/mm ²
Device Push-off Strength	1800 psi
	12.4 N/mm²
Cured Density (gm/cc)	4.0
Thermal Conductivity	55 Btu-in/hr-ft ² -°F
	7.9 W/m-°C
Linear Thermal Expansion	120
Coeff. (ppm/°C)	
Maximum Continuous	130
Operation Temp. (°C)	
Avg. Viscosity(0.5 rpm, 24°C)	190,000 ср

**CURE SCHEDULES:

(Brookfield DV-1, spindle CP51)

<u>Temperature</u>	<u>Time</u>
25°C	120 hr
80°C	8 hr
125°C	2 hr
150°C	1 hr

SHELF LIFE:

Shelf Life

Storage temperature

**25°C

1 yr in original

sealed package

**Shelf life is for unmixed components. If premixed: -40°C for 6 months in original sealed package. After mixing, pot life is 4 hours at 25°C.

The information contained herein is believed to be reliable. All recommendations or suggestions are made without guarantee inasmuch as conditions and methods of commercial use are beyond our control. Properties given are typical values and not intended for use in preparing specifications. The user is advised to evaluate the product in the manner the product is to be used in manufacturing and in the final product. Under no circumstance shall A.I. Technology be liable for accidental, consequential or other damages arising from the use or handling of this product.

While AI Technology owns all proprietary rights of material formulations of its products, specific usage in the manufacturing of certain products may involve patent rights of other companies.

PRODUCT DATA SHEET REV. G @ 04/19/05

^{**}If material is premixed and frozen, thaw for 30 minutes and cure according to one of the recommended schedules.

^{*} Properties given are typical values and not intended for use in preparing specifications. The user is advised to evaluate the product in the manner the product is intended to be used in manufacturing and in the final product.