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Eposolder 6526

Electrically Conductive Adhesive

Typical Properties			
Property	**Unit**	**Value**	**Test Method**
Color / Component A		Silver-Copper	Visual
Color / Component B		Transparent liquid	Visual
Mixing Ratio (A / B)	By wt.	6 : 1	UAITM
Thixtropic Index (as mixed)		3.0	ASTM D2196
Density (as mixed)	Gram /cc	1.8	ASTM D792
Viscosity as Mixed at 25°C	cps	120,000	ASTM D2196
Property as Cured			
Color		Silver-Copper	Visual
Volume Resistivity	Ohm-cm	< 0.001	ASTM D257
Thermal Conductivity	W/m-K	> 6	ASTM D5470
Hardness	Shore D	75	ASTM D2240
Temperature Usage	Degree °C	- 40 to 150	TGA
Adhesion (Al/Al lap shear)	Psi	> 2500	ASTM D1002
Coefficient of Thermal Expansion	ppm/C	55 (@ < Tg)	IPC-TM-650
Shelf Life (< 30°C)	Month	12	UAITM
Cure Profile			
At 25°C (Dry to tack-free)	Min	60	UAITM
Cure at 25°C	Hr	6 to 8	DSC
Cure at 85°C	Min	30	DSC
Cure at 125°C	Min	15	DSC
Pot / Work Life at 25°C (After mixing of A, B parts)	Min	15	Viscosity double

These figures are only intended as a guide and should not be used in preparing specifications.
UAITM – United Adhesives' internal test method

Characteristics

Eposolder 6526 is an electrically conductive adhesive. It is a two-part, silver-coated-copper filled, epoxy-based semi-fluid. It cures at room temperature or elevated temperature to form strong bonding to various metals and substrates. The cured material has excellent electrical conductivity to provide circuit conducting, grounding and EMI shielding. Eposolder 6526 is dispensable and printable.

Special Features and Benefits

- High electrical conductivity
- Flexible cure profiles
- Room temperature curable
- Strong bonding to various substrates
- High thermal conductivity
- High temperature stability

Typical Applications

- Aerospace
- Automotive electronics
- Semiconductor and Telecommunications
- Circuit conducting and grounding
- EMI Shielding
- Conductive coating
- Thermal dissipation

For one part version electrically conductive adhesive, please select United Adhesives' Eposolder 6520.

Processing Instruction

At room temperature, Eposolder 6526 can dry to tack-free in ~1 hour and reach a full cure after 8 hrs. The best properties, however, are typically achieved by curing at elevated temperatures.

The mixing ratio of A:B can be adjusted from 5:1 to 8:1 depending on the viscosity wanted. For instance, for painting a 5:1 ratio may be used to get a lower viscosity, and for a globe-top repairing a 8:1 ratio may be used to get a thicker mixture.

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions can be obtained by contacting directly to United Adhesives Inc.

Storage

Eposolder 6526 has a shelf life of at least 12 months when stored below 30 °C in the originally sealed container. The 'Best use before end' date of each batch appears on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety information

General hygiene regulations should be observed. Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from United Adhesives Inc.