



SOLE DISTRIBUTORS OF
REINHARDT-TECHNIK
Machines for the application of adhesives & sealants
PANACOL ELOSOL
Adhesive systems



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ELECOLIT 325

CONDUCTIVE SILVER EPOXY ADHESIVE

ELECOLIT 325 is a two component pure silver filled epoxy adhesive which combines the excellent adhesive properties of the epoxy with the electrical conductivity of pure silver. It is easy to use because equal amounts of Part A and B (resin and hardener) are mixed together and it has a 1 to 2 hour pot life. **ELECOLIT 325** may be processed with dispensers, stamps or through screen printing. Curing occurs at room temperature. Increased heat yields very short curing times. **ELECOLIT 325** provides optimum solutions for cold curing applications thanks to excellent conductivity and gap filling attributes.

Applications:

1. Connecting heat sensitive components to printed circuit boards.
2. Bonding wave guide plumbing, hybrid circuit assembly.
3. Connecting ground wires to components and making conductive lines.
4. Replace metal solder where temperature or convenience in the application is required.
5. Plating base.
6. Chip bonding for discrete devices and hybrid circuits.

Typical Properties:

Physical Form	:	Silver paste, adhesive & hardener.
Shelf Life at Room Temperature	:	6 months @ (25°C) or 9 months @ 5°C
Pot Life at Room Temperature	:	1 to 2 hours (25°C)
Hardness Shore D	:	79
TG DSC	:	25 to 45°C
Tensile Shear Strength	:	84 - 175 kp/cm ²
Volume Resistivity	:	.0005 ohm-cm
Thermal Expansion	:	31 ppm/K
Thermal Conductivity	:	3.8 W/mK
Water Absorption	:	0.5%
Operating Temperature Range	:	-40°C to + 150°C
Thinners	:	2-4% Butyl Cellosolve, Xylene, Toluene

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Curing

16	hours at	25 °C	0.001 Ohm x cm
2	hours at	50 °C	
30	minutes at	100 °C	
15	minutes at	120 °C	
5	minutes at	150 °C	0.0005 Ohm x cm

How Applied:

- 1) Thoroughly stir contents of both containers of **ELECOLIT 325** Part A and Part B individually to a smooth consistency.
- 2) Carefully weigh 100 parts by weight or measure 100 parts by volume of **ELECOLIT 325** A and B individually, taking care to avoid any cross contamination.
- 3) Mix 100 parts by weight or volume of **ELECOLIT 325** Part A with 100 parts of **ELECOLIT 325** Part B, taking care to mix only the quantity required for use within 1 hour.
- 4) Clean all surfaces of dirt or grease. Apply with spatula, knife, roller or other convenient method of application.
- 5) Cure 24 hours at room temperature or 2 hours at 60°C for optimum results.
- 6) May be used as a conductive coating by adding small amounts of Toluene or Xylene to the mixture of Part A and Part B to lower the viscosity. Allow to air dry initially if you intend to finally heat cure.

Caution:

Avoid skin and eye contact. Wash off affected areas with soap and water. Hardeners are not as toxic as aromatic amines but care should still be exercised in their use.

Availability:

ELECOLIT 325 is available in 50 grm and 500 grm kits. These containers consist of 25 grms and 250 grms each of resin and hardener respectively.

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No liability is accepted for any injury, loss or damage arising directly or indirectly from the use of the Company's products or from the use of information given in our publications, which is intended to serve as a guide only. Customers should satisfy themselves by appropriate trials that the products are suitable for their intended use.