

ECA

Electrically Conductive Epoxy



PRODUCT DESCRIPTION

Intek ECA Conductive Epoxy is a two part, silver filled epoxy used in prototype, repair and general conductive bonding applications. ECA offers strong mechanical bonds, excellent electrical conductivity and cures at room temperature in 24 hours or 15 minutes at 120 C

- Two-component product
- Simple mixing ratios
- Excellent electrical conductivity
- Fast curing
- High strength bond
- Bonds dissimilar surfaces
- Operating temperature range -50 to 120°C

TYPICAL APPLICATIONS

- ECA conductive epoxy may be used for electronics applications including:
- Conductive Bonds Between Heat Sensitive Components
 - Solderless Surface Mount Connections Circuit Board Trace Repair
 - Static Discharge and Grounding
 - Solder Repair
 - Conductive Structural Adhesions
 - Heated rear window repairs

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Composition

Material Part A	Epoxy
Part B	Hardener
Colour	Bright Silver

Specific Gravity	2.85 (A & B Mixed)
Shelf life	12 months

Mix Ratio	1.1
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Cured Compound

Volume Resistivity	<0.001 ohm-cm
Thermal Conductivity	11 BTU-in/ft ² -hr-oF
Operating Temperature	Range (-51 to 120°C)
Lap Shear	>1200 lbs/in.
Shore D Hardness	>70
Dropping Point None @ Adhesion	(ASTM D-2266)(343°C) Excellent
Cured Flexibility	Fair
Chemical Resistance	Excellent
Moisture Resistance	Good

Mixing

Clean surfaces and mix equal amounts of Part A and Part B. Mix thoroughly & assemble within 5 minutes

Curing

Curing times can be accelerated by heat. For fastest cure, maximum conductivity and adhesion cure the bond between **65 and 125C**. ECA will also cure at room temperature 25C for 24 hours or:
60 minutes @ 60C
15 minutes @ 120C

Pot Life

60 Minutes @ 25C after mixing.

Whilst all reasonable care is taken in compiling technical data on the company's products, all recommendations or suggestions regarding the use of such products are made without guarantee since the conditions of use are beyond the control of the company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, and that the actual conditions of use are suitable.

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