500°F ELECTRICALLY CONDUCTIVE ADHESIVE

For High Power Applications

500°F - DURALCO™ 120

Resistance is 0.00008 ohm-cm Just Mix and Apply Cures at Room Temperature Ideal for All Applications

Duralco[™] 120 Epoxy Adhesive Forms Super Electrically Conductive Bonds for continuous use from -50°F to +500°F. This epoxy contains over 70% Ultra Fine, Active Silver providing the ultimate in electrical conductivity.

Resistance measurements of 0.00008 ohm-cm has been reported in many independent tests.

Duralco $^{\rm \tiny M}$ 120 has excellent adhesion to copper, steel, stainless, aluminum, lead, glass, ceramics, plastics and dissimilar materials.

Cures at room temperature or mild heat to offer superior resistance to moisture, most chemicals and solvents.

Duralco M 120 is commonly used in place of solder for electrically conductive bonds, bonding heat sensitive components, etc.

Using Duralco[™] 120 instead of solder avoids exposing parts to soldering temperatures, flux contamination in addition to simplifying lab or production processing of parts.

Applications Include: bonding circuits, solder replacement, bonding semi-conductors, EMI shielding, thermistors, wire tacking, heating elements, assembling electronics, etc.

Users Report:

Duralco[™] 120 was used for an application at 200°C for over 12 months with no degradation in electrical conductivity. Duralco[™] 120 successfully bonded bus bars and carried a current of 2400 amps for a short term test.

Duralco^m 120 bonds sputtering targets to copper based plates and provides 100°C continuous service.

Duralco[™] 120 is the ideal choice for high power, high temperature, electronic or industrial application requiring high electrical conductivity.

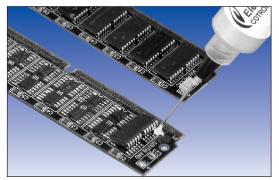
Availability:

Cat. No.		Description	n	Temp.
Duralco™	120-1	2 oz. Kit		500°F

Pre-Measured Kits

Each Unit Contains: 1 jar of resin, 1 syringe of hardener and 1 mixing stick. (See Page 19 for details)

EE 120-2	.Three - 10gm units/box
EE 120-3	.Six - 10gm units/box
EE 120-10	.Ten - 10gm units/box



Duralco™ 120 in A Surface Mount Application



Duralco™ 120 Bonds Leads to an Instrument Assembly

Physical Properties Max. Use Temperature 500°F

Color		Silver	
Base		Ultra Fine Silver	
Mixed Vi	scosity	Smooth Fine Paste	
Mixed De	ensity (gms/cc)	3.8	
Hardnes	s (Shore D)	70	
Lap She	ar Strength (psi)	1500	
Flexural	Strength (psi)	1150	
Compressive Strength (psi)		600	
Thermal Expansion		4.1 x (10 ⁻⁵ /⁰C)	
Volume Resistivity (ohm-cm)		0.00008	
Mix Ratio		100/3.4	
Thermal Conductivity*		50	
Components		2	
Cure	R.T.	16 hrs.	
	100°F	4 hrs.	
	150°F	2 hrs.	
	200°F	10 min.	
	250°F	7 min.	

*(BTU-in/Hr. ft²°F)

10 **COTRONICS CORP.**