

# 500°F THERMALLY CONDUCTIVE ADHESIVE

## For High Power Applications

### 500°F DURALCO™ 132

*Just Mix and Apply*

*Cures at Room Temperature*

*Provides Fast Heat Transfer*

*Ideal for any Industrial, Electrical or Electronic Application*

Duralco thermally conductive adhesives combine Cotronics' unique, high temperature resins with highly conductive fillers to form thermally conductive, adhesive bonds with continuous service up to 500°F.

Easy to use. Just mix and apply.

100% solids formulations. No volatiles. No VOC's.

Duralco™ 132 has excellent adhesion to metals, glass, ceramics, and plastics.

Offers excellent resistance to chemicals solvents and moisture.

Provides the heat dissipation required for many high temperature electronic and industrial applications.

#### Users Report:

- Duralco™ 132 dissipates heat in a semiconductor device.
- Duralco™ 132 transfers the heat generated in high power devices and provides for efficient cooling.
- Duralco™ 132 bonds electrical heating elements for fluid heating.

**Applications Include:** bonding and assembling heating coils, cooling coils, heating elements, heat sinks, reaction vessels, semiconductors, rectifiers, power supplies, replacement for soldering and welding, etc.

Duralco™ 132P is commonly used as a heat tracing adhesive which is used to bond heating or cooling tubing to equipment. Its' non sag formulation and room temperature curing, provides for the most efficient placement of the heating or cooling coils.

Duralco™ 132 is the ideal choice for high temperature, high power electronic or industrial applications requiring high thermal conductivity.

#### Availability:

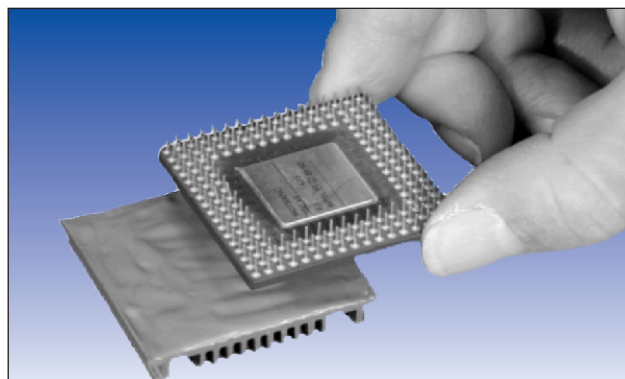
Cat. No.	Description	Temp.
Duralco 132-1.....	16 oz. Kit.....	500°F
Duralco 132-2.....	32 oz. Kit.....	500°F
Duralco 132IP-1.....	16 oz. Kit.....	500°F
Duralco 132IP-2.....	32 oz. Kit.....	500°F
Duralco 132P-1.....	16 oz. Kit.....	500°F
Duralco 132PIP-1.....	16 oz. Putty.....	500°F

#### Pre-Measured Kits

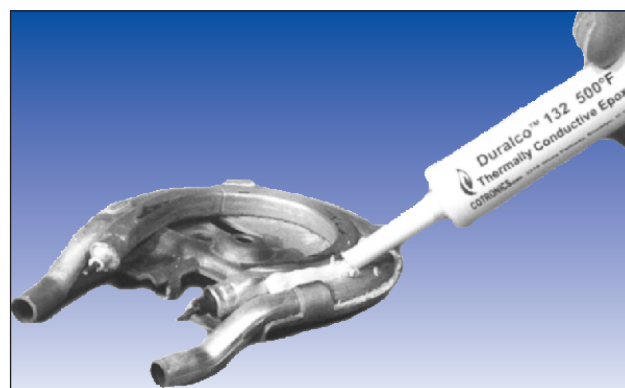
**Each Unit Contains:** 1 jar of resin, 1 syringe of hardener and 1 mixing stick. (See page 19 for details)

EE 132-10.....	10 - 10gm units/box
EE 132-25.....	10 - 25gm units/box
EE 132IP-10.....	10 - 10gm units/box
EE 132IP-25.....	10 - 25gm units/box

**Quantity Prices & Custom Formulations**  
*Available Upon Request*



**Duralco™ 132 Dissipates Heat in A Semi Conductor Device**



**Duralco™ 132 Bonds Electrical Heating Element for Fluid Heating**

Physical Properties	132	132IP
Maximum Temperature	500°F	500°F
Components - Color 2	Silver	Silver
Mixed Viscosity (cps)	14,500	43,000
Hardness (Shore D)	75	75
Flexural Strength (psi)	1,150	1,600
Compressive Strength (psi)	6,000	6,350
Thermal Conductivity (BTU-in/Hr. Ft <sup>2</sup> -°F)	40	40
Thermal Expansion (10 <sup>-5</sup> /°C)	4.1	4.1
Volume Resistivity (ohm-cm)	10 <sup>6</sup>	10 <sup>6</sup>
Heat Distortion (°C)	210	210
Thermal Stability (%1000 hr @ 200°C)	0.2	0.2
Shrinkage (% max.)	0.8	0.8
Moisture Absorption (% 30 Days)	0.2	0.2
Mix Ratio (by wt.)	100:8	100:8
Cure (Hrs. @ R.T.)	16-24*	16-24*

\* Cures can be accelerated with mild heat.