

# SINGLE COMPONENT ADHESIVES

## No Mixing, Measuring or Mess, Just Apply and Heat Cure

### 450°F - DURALCO™ 4420

#### Electrically Resistant Adhesive

Duralco 4420 is ceramic filled and offers excellent electrical properties. No measuring, mixing or mess. Just apply and heat cure. (See table for cure cycles.)

Adheres to ceramics, glass, metals, plastics, mica, bond dissimilar materials, etc. and has excellent resistance to solvents, fuels, lubricants and most common chemicals.

Provides the low moisture absorption required for many electronic applications.

#### Users Report:

- Used for high speed production applications in the electrical, electronics and appliance industries.

Cat. No.	Description
Duralco 4420-3.....	3-4 oz. Dispenser Tubes
Duralco 4420-4.....	11 oz. Caulking Tubes

### 450°F - DURABOND™ 455

#### Thermally Conductive Structural Adhesive

Durabond 445 is a one component, 100% solids, all purpose structural adhesive.

Filled with ultra fine, active Aluminum, Durabond 455 has the strength required for the most demanding applications.

Packaged in easy to use, 11 oz. dispenser tubes. Just apply and cure. (See table for cure cycles.)

Bonds to most metals, plastics, high performance composites, glass, ceramics, dissimilar materials, etc.

Use this unique system for high bond strength, high temp. stability, thermal shock resistance, chemical resistance, low shrinkage and machinability.

**Applications include** high performance bonding and assembling in appliances, aerospace, automotive, sports equipment, bonding dissimilar materials and eliminating brazing.

Cat. No.	Description
Duralco 455-1.....	11 oz. Dispenser Tube

### 450°F - DURALCO™ 126

#### Electrically Conductive Structural Adhesive

Duralco 126 Conductive Adhesive has the conductivity required for many high temperature electronic and industrial applications.

This ultra temp., one component adhesive combines Cotronics' unique resins and hardeners with specialty conductive fillers to provide continuous service up to 450°F.

Duralco 126 will bond to glass, ceramics, metals and plastics and offer excellent resistance to most chemicals and solvents.

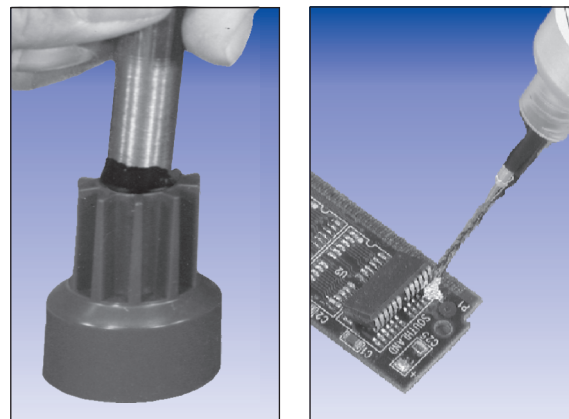
Specially designed for production applications and ideal for use in automatic dispensing equipment.

**Applications include** solder replacement, semi-conductor bonding, shielding, electronics, circuit board repair, etc.

Cat. No.	Description
Duralco 126.....	2.oz. Jar



Single Component Adhesive in Ready to Use 4 oz. and 11 oz. Caulking Tubes



Assembling a Dip Stick and a Circuit Board

PRODUCT	455	4420	126
Maximum Temp	450°F	450°F	450°F
Density (gm/cc)	1.65	1.20	1.05
Hardness (Shore D)	80	75	75
Tensile Strength (psi)	10,000	7,000	10,000
Thermal Cond. (BTU-in/Hr. Ft <sup>2</sup> °F)	12	8	50
Thermal Expansion (10 <sup>-5</sup> /°C)	6.40	4.50	6.40
Dielectric Strength (volts/mil)	400	400	500
Volume Resistivity (ohm-cm)	10 <sup>10</sup>	10 <sup>10</sup>	0.002
Heat Distortion (°C)	180	175	165
Viscosity (cps)	Paste	Paste	Smooth Fine Paste
Dissipation Factor (@100kc)	N/A	0.010	N/A
Dielectric Constant (@100kc)	N/A	3.80	N/A
Elongation %	1.00	1.50	1.40
Thermal Stability % (1000 hr. @ 200 °C)	0.80	0.60	0.80
Shrinkage (% max.)	0.20	0.30	0.50
Moisture Absorption % (30 days @ 50 °C)	0.40	0.50	0.50
Components (Color)	1-Grey	1-Grey	1-Silver
Cure (min @ 250°F)	30-60	30-60	30-60
(min @ 300°F)	5-30	5-30	15
(min @ 350°F)	3-15	3-15	10