

# 500°F Electrically Resistant Epoxy

## Cures at Room Temp. To Bond, Pot, Seal, Protect

**Duralco™ 4525**

### Easy To Use

Just mix and apply. Cures at Room Temp.

No volatiles. No solvents. No out-gassing.

**Duralco 4525** will cure at room temperature to provide, high bond strength, high temperature stability, low shrinkage, excellent chemical, electrical and radiation resistance, and low moisture absorption.

**Users Report:** Duralco 4525 maintains its high electrical resistance over long periods of time, and has the lowest moisture absorption, when compared to 25 commercial Epoxies.

Duralco 4525 received "UL" approval for this application.

**Duralco 4525** is ideal for high performance bonding, potting, sealing, repairs, castings and jigs. Forms protective coatings. Found in electronics, appliances, instrumentation, motors, equipment, etc.



**4525 Bonds a 316 S.S. Shaft to Repair the Ceramic Piston in a Hi-Temp. Acid Pump.**



**4525 Forms a Moisture Proof End Seal on a Electronic Sensor**

Maximum Temp	500°F
Density gm/cc	1.9
Hardness Shore 'D'	90
Tensile Strength psi	10,000
Thermal Conductivity*	13
Thermal Expansion 10 <sup>-5</sup> / °C	3.3
Dielectric Strength Volts / Mil.	450
Volume Resistivity ohm-cm	10 <sup>15</sup>
Heat Distortion °C	210
Viscosity cps	25,000
Dissipation Factor 1/ MHz	0.01
Dielectric Constant 1/ MHz	3.5
Elongation	2%
Thermal Stability	
1000 hr. @ 200°C	0.05
Shrinkage % max.	0.2
Moisture Absorption 30 Days	0.05%
Cure Hr. @ R.T.	16-24
Min @ 250 °F	5
Components - Color	2-black

### Availability:

Duralco 4525-1 Pint Trial Kits

Duralco 4525-2 Gallon Kits

### Call for Sizes and Prices of

Ready to use Pre-Measured Kits or

Epox-Eez™ Twin Pack Self Mixing Applicators kits

### User's Report:

#### **Duralco™ 4525 High Resistance Even in High Humidity.**

Used to seal Thermocouples, Electric Heaters and critical electronic components for use in high humidity environments. Tests show less than 10% of the moisture transmission of Silicones or Competitive Epoxies.

#### **Duralco 4525 Proven in Instrumentation Applications.**

Used for fabrication, end seals and installation of Thermocouples, Pressure, Strain Gauges and Flow Measuring Instruments.

#### **Duralco 4525 Excellent Corrosion Resistance.**

Used to repair glass lined tanks for use in 36% Hydrochloric, 29% Phosphoric, 65% Sulfuric, 70% Nitric Acids, 25% Caustic, and 30% Chrome Oxide solutions. Competitive epoxies disintegrated in less than 24 hours.

#### **Duralco 4525 Bonds Carbon to Steel. In use for 5 years.**

Used to bond carbon blocks to steel for use as a bearing at 300°F in a rotating kiln. Bonds aircraft brake pads.

### Distributed By:

\* Thermal Conductive Units = Btu-in/ Hr. Ft<sup>2</sup> °F



# COTRONICS CORPORATION

www.cotronics.com 131 47th Brooklyn, New York 11232 (718) 788-5533 Fax (718) 788-5538