

500°F Duralco™ 4525 Electrically Resistant Epoxy

Cures at Room Temperature to Bond, Pot, Seal & Protect

Easy To Use:

Just mix and apply. Cures at room temperature.

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-Temperature Acid Pump



4525 Forms a Moisture Proof End Seal on an Electronic Sensor

Physical Properties

Max. Use Temperature **500°F**

Mixed Density (gm/cc)	1.7
Hardness (Shore D)	90
Tensile Strength (psi)	10,000
Thermal Conductivity*	13
Thermal Expansion (10 ⁻⁵ /°C)	3.3
Dielectric Strength (volts/mil.)	450
Volume Resistivity (ohm-cm)	10 ¹⁵
Heat Distortion (°C)	210
Mixed Viscosity (cps)	12,400
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)	0.1
Cure Hr. @ R.T.	16-24
Min @ 250 °F	5
Components (Color)	2-Black
Mix Ratio (R/H)	100:8

*(BTU-in/Hr. ft.²°F)

Availability:

Duralco™ 4525-1 Pint Trial Kits
Duralco™ 4525-2 Gallon Kits

Pre-Measured Kits:

10 grams; 25 grams & 50 grams
50ml Twin Pack Cartridges
Bi-Packs

Users 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:



COTRONICS CORPORATION

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