

600°F LOW VISCOSITY EPOXY

Resists Electricity, Chemicals and Moisture

600°F- DURALCO™ 4460

Duralco™ Low Viscosity Adhesives were formulated with Cotronics' unique, polymer system to provide the ultimate in high temperature chemical, electrical and moisture resistance.

They have superior adhesion and can easily forms protective coatings, with 600°F service.

Duralco™ Epoxies offer high bond strength, high temp. stability, low moisture absorption and low shrinkage.

They are 100% solid systems.

User friendly.

No volatiles. Low odor. No VOC's.

Duralco™ 4460 low viscosity, liquid adhesive forms ultra thin bond lines and is ideal for impregnating, coating and encapsulating.

4460 has the chemical, electrical and radiation resistance that is often required in the most critical applications.

This Unique Polymer System can be used up to 600°F after a heat cure at moderate temperatures.

Users Report:

Ultra Thin Bond Lines

- Transducers bonded with 0.0005" of Duralco™ 4460 provided strengths of 2000 psi at 400°F.

Impregnates Fine Structures

- Used to impregnate composite cloths to form custom high temperature, high strength wave guides.
- Penetrates tightly wound wire coils for electronic high temperature applications.
- Successfully encapsulates induction coils for high temperature pressure sensors.
- Seals and protects cable end seals against corrosion and high heat.

Applications Include: bonding, sealing, encapsulating and protecting cable end seals, thermocouples, strain gauges, critical electronic components, electric heaters, flow, meters, glass lined tanks, etc.

Duralco 4460 is commonly found in aerospace, electronic, appliance, instrumentation and equipment applications.

Availability:

| Cat. No. | Description | Temp. |
|-----------------|----------------|-------|
| Duralco™ 4460-1 | Pint Trial Kit | 600°F |
| Duralco™ 4460-2 | Gallon Kit | 600°F |

Pre-Measured Kits

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

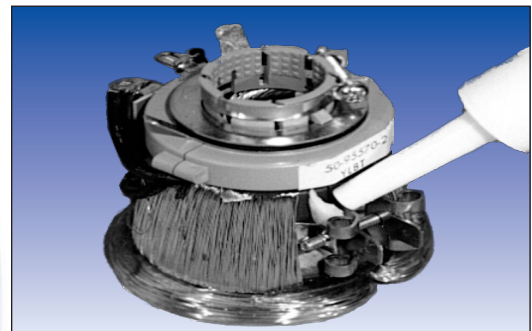
| | |
|------------|----------------------------|
| EE 4460-10 | 10 Epox-Eez 10gm units/box |
| EE 4460-25 | 10 Epox-Eez 25gm units/box |

Quantity Prices and Custom Formulations

Available Upon Request



4460 Fully Impregnates a High Temperature Coil



4460 Penetrates and Encapsulates a Tightly Wound Coil



4460 Coats, Moisture Proofs, Seals and Protects Ceramic Sleaving

| Duralco™ | Units | 4460 |
|----------------------|-------------------------------|------------------|
| Maximum Temp. | °F | 600 |
| Components | Color | 2 - Amber |
| Mixed Density | (gms/cc) | 1.1 |
| Mixed Viscosity | cps | 1,600 |
| Hardness | Shore D | 90 |
| Tensile Strength | psi | 10,300 |
| Thermal Conductivity | BTU-in./Hr.Ft ² °F | 4 |
| Thermal Expansion | 10 ⁻⁵ /°C | 9.8 |
| Dielectric Strength | volts/mil. | 500 |
| Volume Resistivity | ohm-cm | 10 ¹⁴ |
| Heat Distortion | °C | 260 |
| Elongation | % | 5 |
| Thermal Stability | % 1000 hrs. @ 200°C | 0.1 |
| Shrinkage | % max. | 0.5 |
| Moisture Absorption | % after 30 Days | 0.1 |
| Mix Ratio | R/H | 100:80 |