

Unique Room Temp. Curing - 500°F Low Viscosity Epoxies

Adhesives, Coatings and Sealants

- *Ultra Thin Bond Lines*
- *Seals Porous Materials*
- *Impregnates Fine Structures*
- *Forms Protective Coatings*

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

Duralco 4460 Series Epoxies are user friendly, 100% solids, No volatiles. No Voc's. No harsh odors.

Duralco™ 4461 - 500°F Bonding and Coating

A free flowing, liquid adhesive for ultra thin bond lines, impregnating, coating and encapsulating.

Excellent adhesion to metals, plastics, ceramics, glass, etc.

Cure at room temp. to provide chemical, solvent and corrosion resistance in any high temp. application.

Use up to 500°F as a protective coating for coils, filament windings, electronics. and applications in electronics, optics, instrumentation, etc.

Users Report:

- Fiber Optic Cables, consisting of 3,000 glass strands, were encapsulated and bonded with 4461 in a 1/8" stainless steel tube. The low viscosity of 4461 enabled full penetration in and around the fiber stands.
- 4461 bonds optical components and protects them from moisture absorption and transmission.

Duralco™ 4462 - 400°F Clear Epoxy

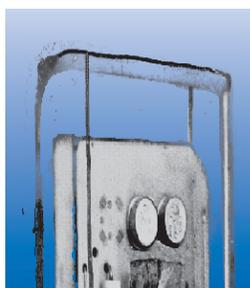
Duralco 4462 was developed to extend the performance of Cotronics' unique polymer system and provide users with a new Water White, Crystal Clear, Low Viscosity Epoxy that is easily cured at room temp. to provide 400°F service.

Duralco 4462 is comparable to acrylic plastics and will transmit over 90% of light in the visible spectrum. Note: Some reduction in light transmission may occur with use over 300°F.

Ideal for bonding, encapsulating, impregnating and coating with excellent chemical, solvent, moisture and electrical resistance.

Applications Include: optics, electronics, fiber optics, instrumentation, R & D, appliances, etc.

Now, Invisible Bonds are readily obtained for applications in optics, displays, instruments, jewelry, etc.



4461 Bonds an Optical Component



4461 Penetrates and Encapsulates A Semi-Conductor Device

Duralco™ Maximum Temp	Units °F	4461 500	4462 400
Components	Color	2-Amber	2-Clear
Viscosity	cps	600	500
Cure	Hr. @ R.T.	16	16
Hardness	Shore 'D'	75	75
Tensile Strength	psi	9,500	9000
Thermal Conductivity*	BTU- in Units	4	4
Thermal Expansion	10 ⁻⁵ / °C	6.4	6.4
Dielectric Strength	volts/mil.	500	485
Volume Resistivity	ohm-cm	10 ¹³	10 ¹¹
Heat Distortion	°C	210	170
Elongation	%	5	2
Thermal Stability	% 1000 hr @ 200°C	0.20	0.3
Shrinkage	% max.	1	1
Moisture Absorption	30 Days %	0.15	0.2
Mix Ratio	R/H	100/17	100/23

* Thermal Conductivity Units = Btu-in/ Hr. Ft² °F

Availability:

Cat #	Description	Temp.
Duralco-4461-1	... Pint Trial Kit	500 °F
Duralco-4461-2	... Gallon Kit.	500 °F
Duralco-4462-1	... Pint Trial Kit	400 °F
Duralco-4462-2	... Gallon Kit.	400 °F

Pre-Measured Kits

Epoxy-Eez™ in 10 gm., 25 gm., and 50 gm. units.

Epoxy-Eez™ Twin Pack Cartridges

Self Measuring and Mixing Dispenser Guns



COTRONICS CORPORATION