500ºF LOW VISCOSITY EPOXY

Bonds, Coats, Seals and Protects

500ºF - Duralco™ 4461

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 temperature chemical, electrical and moisture resistance.

They are user friendly, 100% solid formulations.

No volatiles. No VOC's. No harsh odors.

Duralco 4461 is a free flowing, liquid adhesive that is ideal for forming ultra thin bond lines, impregnating, coating and encapsulating applications.

Has excellent adhesion to metals, plastics, ceramics, glass, etc.

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

Can be used up to 500°F as a protective coating for coils, filament windings, electronics, etc.

It is an ideal choice for high temperature 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.
- 4461 Pots a transformer for high temperature service.

Availability:

Cat No.	Description	Temp.
Duralco 4461-1	Pint Trial Kit	500 °F
Duralco 4461-2	Gallon Kit	500 °F

4461SS, New, Slow Setting Version

Ideal for large volume potting and casting applications.

Duralco 4461SS-1	Pint Trial Kit	500 °F
Duralco 4461SS-2	Gallon Kit	500 °F

Pre-Measured Kits

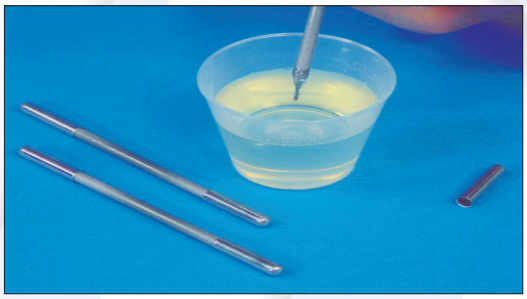
Each Unit Contains: *1 jar of resin, 1 syringe of hardener and 1 mixing stick.*

EE 4461-10 . . . . . 10 Epox-Eez 10 gm units/box

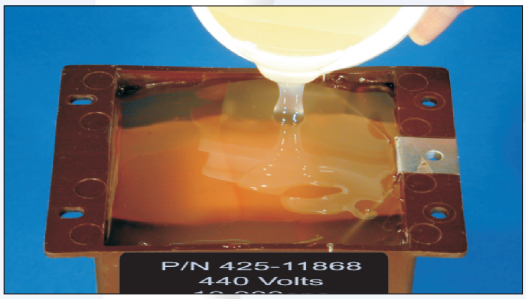
EE 4461-25 . . . . 10 Epox-Eez 25 gm units/box

Quantity Prices & Custom Formulations

4461 Penetrates and Encapsulates A Semi-Conductor Device



4461 Bonds an Optical Component



4461 Potting a Transformer for High Temp. Use

Duralco ™	Units	4461
Maximum Temp	**ºF**	**500**
Components	Color	2-Amber
Viscosity	cps	600
Hardness	Shore 'D'	90
Tensile Strength	psi	9,500
Thermal Conductivity	Btu-in/ Hr. Ft^2 °F	4
Thermal Expansion	10^{-5}/°C	5.4
Dielectric Strength	volts/mil.	450
Volume Resistivity	ohm-cm	10^{13}
Heat Distortion	°C	210
Elongation	%	5
Thermal Stability	% 1000 hrs @ 200°C	0.20
Shrinkage	% max.	0.8
Moisture Absorption	% after 30 Days	0.15
Mix Ratio	R/H	100/17
Cure	Hr. @ R. T.	16
	Min. @ 250ºF	5

COTRONICS CORPORATION

www.cotronics.com 3379 Shore Parkway Brooklyn, New York 11235 (718) 646-7996 Fax (718) 646 3028