ELECTRICALLY RESISTANT ADHESIVES

Room Temp. Cure, Use to 3000ºF

2800ºF - RESBOND 919

Electrically Resistant Adhesive

Resbond 919 was formulated with Cotronics' proprietary ceramic binders to offer an adhesive with exceptionably high electrical resistance.
These special binders maintain their high electrical resistance and dielectric strength even when exposed to temperatures up to 2800ºF.

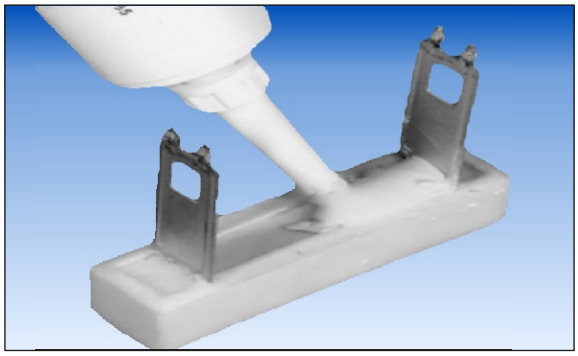
Resbond 919 has a dielectric strength of 270 volts/mil and a volume resistivity of 10^{11} ohm-cm (at room temp.).

Just mix the 919 to a creamy paste, apply and dry at room temperature.

Users Report:

- Bonds electrode rods into electrically insulating ceramic tubes and protects them from voltage breakdown and corrosive atmospheres.
- Seals light bulb fixtures, insulating them with out cracking when exposed to heat and thermal cycling.
- Forms protective tubes for fiberglass covered extension wires. Protecting against heat and corrosion.

Use Resbond 919 for electrical insulation in potting, sealing, coating, ingnitors, heating coils, instrumentation, thermocouples and in all electrical applications.



Applying 919 to a Hi-Power Resistor

Resbond	919	920
Continous Use Temp. ºF	**2800**	**3000**
Base	MgO-ZrO_2	Al_2O_3
Form	Paste	Paste
Compressive Strength (psi)	4500	4500
Flexural Strength (psi)	450	450
Thermal Expansion (x10^{-6}/ºF)	2.6	4.5
Thermal Conductivity*	4	15
Dielectric Strength (volts/mil)	270	270
Volume Resistivity (ohm - cm)	10^{11}	10^{11}
Components	2	2
Mix Ratio	100/13	100/14
Color	Tan	White
Consistency	Paste	Paste

*BTU in / Hr ºF Ft^2

3000ºF - RESBOND 920

Thermally Conductive Adhesive

Resbond 920 offers high thermal conductivity and the superior resistance of Resbond 919.

It is based on high Alumina ceramic and should be used whenever rapid dissipation of heat is required.

Resbond 920 has a dielectric strength of 270 volts/mil and a volume resistivity of 10^{11} ohm-cm (at room temp.).

Resbond 920 offers excellent electrical, chemical and solvent resistance.

It is easy to use. Just mix, apply and cure at room temp. It is easily incorporated into many production processes.

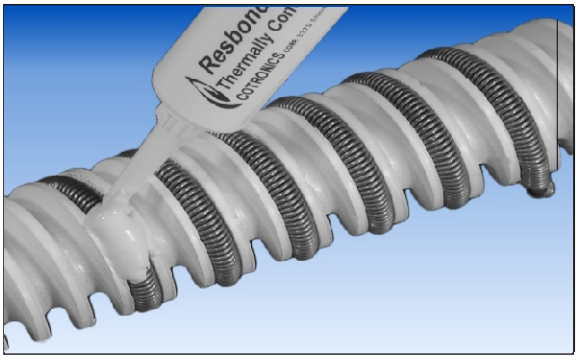
Cures can be accelerated with mild heat (when required).

Users Report:

- Resbond 920 Replaced seven (7) different adhesives and potting compounds, at a heating element manufacturers plant, for use in various applications from - 60ºC to 1500ºC.

Applications Include: Bonding high temp resistors, pyrometers, heating elements, furnace elements, etc.

Ideal for applications where a combination of high electrical resistance and good thermal conductivity is required.



920 Provides a Thermally Conductive and Electrically Insulating Bond

Cat No.	Size
Resbond 919-1	Quart
Resbond 919-2	Gallon
Resbond 920-1	Quart
Resbond 920-2	Gallon