ALUMINA BASED ADHESIVES

Cures at Room Temp. to Bond, Pot, Seal and Protect

3000ºF - RESBOND 908

Electrically Resistant - Thermally Conductive

New, High Purity, Alumina based adhesive incorporates a unique, catalytic curing system.

Just mix the adhesive and it's activator to form a readily dispensable, smooth, creamy paste.

It will not clog delicate dispensing needles and is suitable for any application requiring micro drops or several ounces of material.

Resbond 908 has excellent electrical resistance, moisture resistance and thermal conductivity.

Resbond 908 will become water insoluble after use (or post cure) at temperatures of 250ºF - 300ºF.

Users Report:

- 908 Successfully filled a long tubular probe, providing long term electrical isolation and moisture proofing for a electronic sensor.

Applications include bonding, potting and encapsulating delicate electronic assembles, sensors, instruments and general purpose high temp. applications.

It will satisfy many difficult application requirements and is ideal for many critical, electronic applications.

908 Bonds & Protects Sensors

903HP Bonds a High Strength Ceramic Fitting for use at 2650ºF

3250ºF - RESBOND 903HP

Bonds Dense Hi Strength Ceramics

Resbond 903HP is an ultra high temperature, Alumina Adhesive.

Developed for high strength bonding of any combination of dense non-porous ceramics, glass and or non-reactive metals.

Resbond 903HP is a smooth, creamy paste that can be brushed, troweled or sprayed on.

Just re-mix and apply.

Handling strength is obtained, after an initial cure at 250ºF. A complete cure occurs in 1 hour at 600-700ºF.

Resbond 903HP is usable to 3250ºF continuously.

It has excellent resistant to liquid metals, oxidizing and reducing atmospheres, most chemicals and solvents.

Resbond 903HP has excellent electrical properties.

Users Report:

- 903HP bonds thermocouples to high alloy steel and withstands repeated thermal cycling from -100ºF to 500ºF.
- 903HP was easily sprayed onto stainless steel to form a dielectric layer for an industrial heater, used at 1400ºF.

Resbond	903 HP	908
Continuous Use Temp. ºF	3250	3000
Base	Al_2O_3	Al_2O_3
Compressive Strength (psi)	7000	3000
Flexural Strength (psi)	3500	1100
Thermal Expansion ($x10^{-6}$/ºF)	4.0	4.5
Thermal Cond. (BTU-in/ºF hr. ft^2)	40	15
Dielectric Strength (volts/mil)	250	200
Volume Resistivity (ohm-cm)	10^{10}	10^{10}
Components	1	2
Color	White	White
Consistency	Paint	Paste
Cure Temp.	600ºF	R. T.

Availability

Resbond 903HP-1. . . . . Pint

Resbond 903HP-2. . . . . Quart

Resbond 903HP-3. . . . . Thinner (Pint)

Resbond 908-1 . . . . . Pint

Resbond 908-2 . . . . . Quart

Polytec PT
Polymere Technologien

Zur Beachtung:

Vorstehende Angaben können nur allgemeine Hinweise sein. Bei den aufgeführten Eigenschaften und Leistungsmerkmalen handelt es sich um circa-Werte, diese sind nicht Teil der Produktspezifikation. Wegen der außerhalb unseres Einflusses liegenden Verarbeitungs- und Anwendungsbedingungen und der Vielzahl unterschiedlicher Materialien empfehlen wir, in jedem Fall zunächst ausreichende Eigenversuche durchzuführen. Eine Haftung für konkrete Anwendungsergebnisse kann daher aus den Angaben und Hinweisen in diesem Merkblatt nicht abgeleitet werden.
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Änderungen vorbehalten / Stand: 07/2009

Polytec PT GmbH Polymere Technologien
Polytec-Platz 1-7 · 76337 Waldbronn
Tel. 07243 604-400 · Fax 07243 604-420
E-Mail info@polytec-pt.de