

COTRONICS® SiO₂ SILICA BASED CEMENT

1370°C - RESBOND® 905

Low Expansion Adhesive

Resbond® 905 Quartz (fused silica) Adhesive was specially formulated for bonding low expansion and thermal shock resistant ceramics. The thermal expansion of **Resbond® 905** closely matches the extremely low expansion of Quartz, Fused Silica, Cordierite and Lithium-Alumina Ceramics. These shock resistant ceramics can now be successfully bonded and used to 1371°C. Replaces standard ceramic adhesives that may crack and weaken on thermal cycling.

1370°C - RESBOND® 940LE

Low Expansion Adhesive, fast curing

Resbond® 940LE is a low expansion, Quartz based, fast curing adhesive. The perfect adhesive for bonding and potting Quartz Lamps, Glassware, Fibre Cables or any other low expansion materials. **940LE** bonded high performance, halogen light bulbs in a high speed, high precision production line.

980°C - RESBOND® 940HE

High Expansion Adhesive

Resbond® 940HE is a silica filled adhesive for bonding and encapsulating high expansion materials.

950°C - THERMEEZ® 7030

« Epoxy Like » Adhesive

Thermeez® 7030 High Expansion Adhesive Bonds and Protects to 950°C. Asbestos free and safe to use. No objectionable odours or harmful fibres. Just mix to a smooth, creamy paste and apply. **Thermeez®** will cure in 24 hours at room temperature or in 1 hour at 120°C. Can be applied to most metals, ceramics, door gaskets, tadpole gaskets and ceramic cloths and has excellent adhesion to steel, stainless, aluminium, lead and ceramics. **Thermeez® 7030** is fireproof and has resistance to most acids, alkalise, solvents, corrosives and electricity. **Thermeez® Hi-Seal** will form corrosion and erosion resistant coatings. Just apply and post cure at 315°C. Can be applied from a standard caulking cartridge for applications in exhaust systems, diesel engines, gas turbines, heating plants, etc. It is the ideal choice for any hi-temp. application requiring 980°C service, pressure tight and fire proof seals, wear resistance and high expansion. Commonly used in high temperature exhaust systems, diesel engines, gas turbines, heating plants, etc.

For pricing information or general queries, please email: info@final-materials.com

SiO ₂ Cement Adhesive		905	940LE	940HE	7030
Peak Temperature	°C	1371	1370	980	980
Components		2	2	2	2
Compressive Strength	N/mm ² (20°C)	22	24.1	29	34.5
Flexural Strength	N/mm ² (20°C)	14.5	14.5	10	10
Thermal Conductivity	W/m °C	1.44	0.72	1.2	1.2
Thermal Expansion	x 10 ⁻⁶ °C	0.5	0.7	13.5	13.5
Dielectric Strength	kV/mm	7.8	4.9	3.9	3.9
Resistivity	Ω.cm	10 ¹¹	10 ⁸	10 ⁹	10 ⁹
Mix Ratio	Powder - Binder	100 - 60	100 - 45	100 - 33	100 - 20
Cure Temp.	Hrs @ Room Temp.	-	24h	24h	24 - 36h
Cure Temp.	°C	2h @ 120°C	5-15 min @ 93°C	5-15 min @ 93°C	4h @65°C

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