

Ceramic Putties

Durabond®

Overview

Durabond™ 7025

530°C Aluminium Putty

Formulated with active aluminium particles to provide resistance to corrosion, erosion, chemicals and solvents. This creamy paste is easily applied to form a smooth surface that is ideal for any high temperature repair of cracks and voids, rebuild worn or eroded areas, sealing and protection. 7025 cures in 24 hours or 2 hours at 120°C, to form a highly machinable sealant.

Available in 0.5Kg and 1 Kg containers.

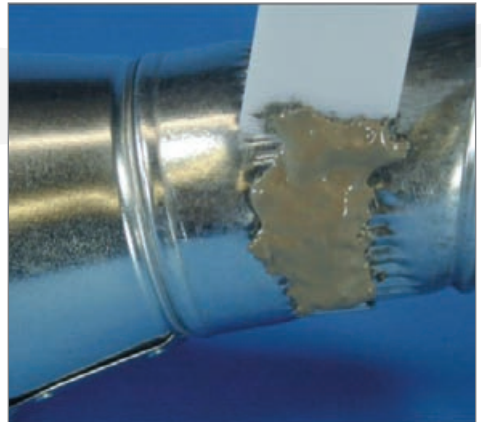


Durabond™ 7032

1100°C Stainless Steel Putty

A single part, smooth creamy paste is easy to use. Just mix and apply. User friendly, does not contain flammable solvents. 7032 has excellent adhesion and is resistant to most chemicals, solvents and elevated heat. Ideal for high temperature repairs, rebuilding, filling holes, plugging leaks in automotive, maintenance and industrial applications. 7032 does not run, drip or sag while applying and hardening starts in just 60 minutes and cures in 24 hours at room temperature.

Available in 0.5Kg and 1 Kg containers.



Ceramic Putties Features Table

Product	7025	7032
Service Temperature °C	530	1100
Base	Al	SS
Compression Strength psi	4,800	5,400
Bond Strength (psi @ room temperature)	1,400 @ 540°C	1,200 @ 540°C
Thermal Expansion (10 ⁻⁶ / °C)	10	10
Thermal Conductivity (W/m°C)	4.32	1.44
Components	2	1
Mix Ratio	100:55	N/A
Viscosity	Paste	Paste
Density (g/cc)	2.2	3.5
Working Time (minutes)	N/A	N/A
Cure @ room temperature (hours)	16	16

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Ceramic Potting Compounds

Durapot®

Overview



Durapot™ 801

1840°C Pure Alumina Ceramic

Room temperature curing, 99% pure Alumina ceramic. Does not contain binders to contaminate even the most delicate systems.

Durapot™ 804 and 805

1650°C Alumina Potting Compounds

Formulated to provide a high strength, commercial, Alumina potting and casting material.

Durapot™ 809

1540°C Electrically resistant Cement

Based on Magnesium Oxide it is electrically resistant and offers excellent chemical resistance.

Durapot™ 810

1650°C Thermally Conductive Compound

Alumina based, thermally conductive potting compound and adhesive.

Durapot™ 814

1100°C High Speed Potting Cement

Will cure in 5 minutes at 80°C to 110°C or overnight at room temperature.

Durapot™ 821

1370°C Low Expansion Cement

Quartz based fast curing adhesive and potting compound, perfect for any low expansion material.

Ceramic Potting Compounds Features Table

Product	801	804	805	809	810	814	821
Special Feature	Pure Alumina	Small Parts	Large Castings	High Dielectric	Therm. Cond.	Fast Cure	Low Expansion
Base	99% Alumina	96% Alumina	96% Alumina	MgO	Alumina	Zirconia Silicate	Fused Silica
Temperature Limit °C	1800	1650	1650	1530	1650	1100	1370
Volume Resistivity (ohm-cm)	10 ¹⁵	10 ¹⁰	10 ¹⁰	10 ¹¹	10 ¹¹	10 ⁸	10 ⁸
Dielectric Strength (v/mil)	350	175	175	270	270	125	125
Thermal Expansion (10 ⁻⁶ / °C)	7.74	7.20	7.20	4.68	8.10	8.10	0.54
Thermal Conductivity (W/m°C)	1.152	1.152	1.44	0.576	2.16	1.152	0.72
Pot Life	15 min	30 min	30 min	20 min	20 min	20 min	20 min
Cure Time @ room temp.	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs
Mix Ratio	100:44	100:19	100:12	100:13	100:13	100:14	100:44