

High Temp, High Resistance Encapsulating and Embedding Materials

Durapot™ 801 99% Pure Alumina Ceramic

Durapot™ 801 is a specially formulated, room temperature curing, 99% Pure Alumina Ceramic that offers the ultimate properties of pure Alumina.

No binders to contaminate even the most delicate systems. Offers high electrical resistance even at high temperatures.

This unique 99% Pure Alumina Ceramic finds uses in many electrical and metallurgical applications.

Durapot™ 804 and 805 96% Pure Alumina Ceramic

Durapot™ 804 and 805 were formulated to provide a high strength, low cost Alumina potting and casting material.

Electrical and metallurgical properties are excellent.

Simply mix, pour and cure at room temperature.

Use Durapot™ 804 for small parts and 805 for large parts.



Encapsulating Electronic Components

Durapot™ 809 Electrically Resistant Cement

The best, general purpose ceramic potting compound. Durapot™ 809 is a 2800°F, highly electrically resistant ceramic.

Use for potting, sealing and bonding. Just mix, apply and cure at room temperature.

Use in ignitions, heating coils, electronics and many production applications.

Durapot™ 810 Thermally Conductive and Electrically Resistant Cement

810 is a 3000°F, highly thermal conductive, electrically resistant Alumina based, potting compound and adhesive that was developed to provide excellent electrical resistance at high temperatures and improved thermal conductivity for high power applications.

Choose regular grade for maximum thermal conductivity or extra fine for small parts.

Durapot™ 814 High Speed Potting Cement

Durapot™ 814 was formulated for use where a fast cure is required. Just mix and apply. Will cure in 5 minutes at 175°F - 225°F or overnight at room temperature. It is an excellent choice for production applications.

Durapot™ 820 Electrically Resistant Coating

A one component paint and coating. Just brush on and air dry to form a highly resistant, 3000°F coating containing over 85% Alumina. Use to coat wires, coils etc.

Durapot™ 821 Low Expansion Cement

Durapot™ 821 is a Quartz based, fast curing adhesive and potting compound.

The perfect material for bonding and potting Quartz Lamps, Glassware, Fiber Cables or any low expansion material.

It is easy to use and allows fast cures when required. Ideal for use in production applications.

Cat. No.	Description	Quart	Gallon
Durapot™ 801.....	Powder & Activator	142.92	401.76
Durapot™ 804.....	Powder	126.48	316.64
Durapot™ 805.....	Powder	126.48	316.64
Durapot™ 809.....	Powder	128.28	321.14
Durapot™ 810.....	Powder	126.48	321.14
Durapot™ 814.....	Powder & Activator	126.48	325.12
Durapot™ 820.....	Paint	127.53	393.24
Durapot™ 821.....	Powder & Activator	124.21/pint.....223.63	444.61

Quantity Pricing Available Upon Request

DURAPOT™ CERAMICS

Potting Compounds - Cure at Room Temp. - Use to 3000°F

Durapot™	801	804	805	809	810	814	820	821
SPECIAL FEATURE	Pure Alumina	Small Parts	Large Castings	High Dielectric	Thermal Cond.	Fast Cure	Dielectric Coating	Low Expansion
BASE	99% Alumina	96% Alumina	96% Alumina	MgO Base	Alumina	Zirconia Silicate	Alumina Oxide	Fused Silica
Temp Limit °F	3350	3000	3000	2800	3000	2000	3000	2500
Volume Resistivity (ohm-cm)	10 ¹⁵	10 ¹⁰	10 ¹⁰	10 ¹¹	10 ¹¹	10 ⁸	10 ¹²	10 ⁸
Dielectric Strength (volts/mil)	350	175	175	270	270	125	200	125
Thermal Expansion (10 ⁻⁶ /°F)	4.30	4	4	2.60	4.50	4.50	4	0.30
Thermal Conductivity (BTU-in /°Fhr.Ft ²)	8	8	10	4	15	8	2	5
Chemical Resistance	Good	Good	Good	Good	Good	Good	Good	Excellent
Solvent Resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Pot Life	15 min.	30 min.	30 min.	20 min.	20 min	20 min	10 min.	20 min
Components	2	2	2	2	2	2	1	2
Color	White	White	White	Tan	Tan	White	Red	White
Mix Ratio Base	100 parts	100 parts	100 parts	100 parts	100 parts	100 parts	one	100 parts
Activator	44 parts	19 parts	12 parts	13 parts	13 parts	30 parts	component	44 parts
Cure Cycle Time **	24 hrs. R. T.	24 hrs. R. T.	24 hrs. R. T.	24 hrs. R. T.	24 hrs. R. T.	24 hrs. R. T.	24 hrs. R. T.	24 hrs. R. T.

**NOTE: Cure may be accelerated by mild heating @ 150°F - 200°F.
Post cures @ 250°F will improve moisture resistance for 801, 808, 809, 814,821.