

DURAPOT CERAMICS

3000°F Potting Compounds

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	2600	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 Exp. (10 ⁻⁶ /°F)	4.3	4	4	2.6	4.5	4.5	4	0.3
Thermal Cond. (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 Activator	100 parts 44 parts	100 parts 19 parts	100 parts 12 parts	100 parts 13 parts	100 parts 13 parts	100 parts 30 parts	one component	100 parts 44 parts
Cure Time ** @ R. T.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.

**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.

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, 3200°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.

Durapot	Description
Durapot 801	Powder & Activator
Durapot 804	Powder
Durapot 805	Powder
Durapot 809	Powder
Durapot 810	Powder
Durapot 814	Powder & Activator
Durapot 820	Paint
Durapot 821	Powder & Activator

Quantity Pricing Available Upon Request