



### Ceramabond 571

#### Description

Ceramabond 571 is a ceramic, magnesium oxide based 2-K adhesive.

This adhesive is characterized by its high thermal expansion, which enables Ceramabond 571 to bond metal to glass.

The coefficient of thermal expansion is close to that of nickel, Inconel, copper and steel.

This adhesive dries quickly when exposed to air and usually does not require heat curing. However, it is recommended to do so if possible.

#### Technical Data

Characteristics	Ceramabond 571
Main Components	Magnesium Oxide
Max. Temperature	1760 °C
Components	2
Mixing ratio	60 : 40 (Powder : Liquid)
Mixed Viscosity	200 – 900 g/cm <sup>3</sup>
CTE	12.6 cm/cm/°C x 10 <sup>-6</sup>
Dielectric Strength	3.58 KV/mm at RT
Spec. Resistance	10 <sup>9</sup> Ohm/cm at RT 10 <sup>5</sup> Ohm/cm at 540 °C
Moisture Resistance	Excellent
Alkali Resistance	Good
Acid Resistance	Acceptable
Oxidation Resistance	Excellent
Organic Solvent Resistance	Excellent
Hardness	5.5 Moh's Scale

#### Handling

All surfaces to be bonded or coated must be free of dirt, grease or oil. If possible, roughen surfaces. The adhesive must be mixed thoroughly and homogeneously before use, but under avoidance of excessive stirring. Caution, mixed in air has negative effects on the application. Always apply Ceramabond 571 to the surfaces to be bonded evenly in one layer with a spatula, brush, by spray application or with a manual or automatic dispenser. Immediately after application, join the parts together uniformly to obtain an even adhesive film.

#### Hardening

- 1 – 4 hours air cure
- 2 hours heat cure at 90 °C