



The high temperature cements Cera-Kote®, Cera-Kote 322-D and Kaowool® Cement B are air-setting ceramic fiber cements for use with Kaowool products. They may be used for spray, dip, or brush application. These cements set with a strong hard film which will develop a ceramic bond above 1600°F (871°C).

Cera-Kote is an off white, medium viscosity regular grade cement.

Cera-Kote 322-D is a white, high viscosity, high strength premium grade cement.

Kaowool Cement B is a white, low viscosity premium grade cement.

Features

- Range of grades with different viscosities
- Develops strong bond on drying
- Long shelf life when properly stored

Applications

- Adhesive to apply foils (stainless or aluminum) to Kaowool ceramic fiber blanket
- Adhesive to join vacuum formed Kaowool ceramic fiber parts together
- Adhesive and insulation for heating elements

Standard Sizes

Can	1 gallon
Pail	5 gallon

Handling

High temperature cements must be protected from freezing. Adequate ventilation and precautions against inhalation of particles during spray application should be provided.

Installation Information

The surface to be coated should be clean and dry. For best adhesion, smooth surfaces should be roughened. With a coating of 0.025 in. (0.625 mm), approximately 60 square feet (6 square meters) will be covered per gallon.

High Temperature Cements

Product Information

Physical Properties	Cera-Kote	Cera-Kote 322-D	Kaowool Cement B
Appearance	off-white	white	white
Continuous use limit, °F (°C)	2150 (1177)	2200 (1204)	2200 (1204)
Max. temperature rating, °F (°C)	2300 (1260)	2300 (1260)	2300 (1260)
Melting point, °F (°C)	3200 (1760)	3250 (1788)	3250 (1788)
Bond strength-MOR, psi (Mpa)			
After air drying	180 (1.2)	255 (1.8)	205 (1.4)
Linear shrinkage %			
after 24 hr @ 2300°F (1260°C)	3.2	2.5	2.5
Drying temperature, (max) °F (°C)	150 (66)	150 (66)	150 (66)
Chemical Analysis, Nominal, % weight basis after firing			
Alumina, Al ₂ O ₃	39	44	44
Silica, SiO ₂	59	55	55
Other	2	2	2

Chemical Properties

High temperature cements are mildly alkaline and require complete air drying to form a strong set. After drying, they are not soluble in water.

Data are average results of tests conducted under standard procedures and are subject to variation.

Data contained in this brochure are intended as a guide only. For specifications and estimating purposes, contact your nearest Thermal Ceramics representative.

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