

Cera-Kote[®] and Kaowool[®] B Cements

Datasheet Code US: 5-14-1005

Product Description

High temperature cements Cera-Kote, Cera-Kote 322-D, and Kaowool Cement B are air-setting cements for use with a variety of insulating 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.

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

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

Cera-Kote 624-A is a white, high viscosity, high strength premium grade non-RCF and non-crystalline silica containing cement.

Features

- Range of grades with different viscosities
- Develop strong bond on drying
- Long shelf life when properly stored
- Non-RCF and Non-Crystalline silica grade available

Applications

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

Handling

High temperature cements must be protected from freezing. Adequate ventilation and precautions against inhalation of particles during spray application should be provided. Normal shelf life is six months in unopened containers that have been properly stored.

Installation Information

The surface to be coated should be clean and dry. For best adhesion, smooth surfaces should be roughened. With a coating of 0.047 in. (1.2 mm), approximately 34 square feet (3.2 square meters) will be covered per gallon.

Availability

Products	1 gallon pail	5 gallon pail	16 oz squeeze bottle
Kaowool Cement B	X	X	
Cera-Kote	X	X	
Cera-Kote 322-D	X	X	
Cera-Kote 624-A	X	X	X

The values given herein are typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Morgan Advanced Materials office to obtain current information. This product may be covered by one or more patents or foreign equivalents: A list of patent numbers is available upon request to Morgan Advance Materials plc.

Cera-Kote[®] and Kaowool[®] B Cements

Mastics Product Name	<u>Kaowool Cement B</u>	<u>Cera-Kote</u>	<u>Cera-Kote 322-D</u>	<u>Cera-Kote 624-A</u>
Fiber Class	RCF	RCF	RCF	No fiber content
Material Grade	Cement	Cement	Cement	Cement
Physical Properties				
Color	white	off-white	white	white
Continuous Use Temperature, °F	2200	2150	2200	2200
Continuous Use Temperature, °C	1204	1177	1204	1204
Classification Temperature, °F	2400	2300	2400	2400
Classification Temperature, °C	1316	1260	1316	1316
Melting Temperature, °F	3250	3200	3250	3250
Melting Temperature, °C	1788	1760	1788	1788
Drying temperature, maximum, °F	150	150	150	150
Drying temperature, maximum, °C	66	66	66	66
Shelf life, months	6	6	6	6
Modulus of Rupture - Bond Strength, MOR, psi				
air drying	205	180	255	234
Modulus of Rupture - Bond Strnegth, MOR, MPa				
air drying	1.4	1.8	1.7	1.4
Permanent Linear Shrinkage, %, 24 hours				
2300°F (1260°C)	2.5	3.2	2.5	-
Chemical Analysis, % weight basis after firing				
Alumina, Al ₂ O ₃	44	39	44	80
Silica, SiO ₂	55	59	55	19
Other	2	2	2	1

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