

Cera-Kote™ Cements and Kaowool® B Cement

Product Data Sheet



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 871°C (1600°F).

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

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 twelve 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 1.2mm (0.047 in), approximately 3.2 m² (34ft²) will be covered per gallon.

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 (Cera-Kote)

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

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| Properties | Cera-Kote | Cera-Kote 322-D | Cera-Kote 624-A | Kaowool Cement B |
|--|-------------|-----------------|-----------------|------------------|
| Colour | off-white | white | white | white |
| Continuous Use Temperature, °C(°F) | 1177 (2150) | 1204 (2200) | 1204 (2200) | 1204 (2200) |
| Classification Temperature, °C (°F) | 1260 (2300) | 1316 (2400) | 1316 (2400) | 1316 (2400) |
| Melting Temperature, °C (°F) | 1760 (3200) | 1788 (3250) | 1788 (3250) | 1788 (3250) |
| Drying temperature, maximum, °C (°F) | 66 (150) | 66 (150) | 66 (150) | 66 (150) |
| Modulus of Rupture-Bond Strength, MPa (psi) | | | | |
| Air drying | 180/1.8 | 225/1.7 | 234/1.4 | 205/1.4 |
| Permanent Linear Shrinkage, %, 24 hours | | | | |
| 2300°F(1260°C) | 3.2 | 2.5 | - | 2.5 |
| Chemical Analysis, % | | | | |
| Alumina, Al ₂ O ₃ | 39 | 44 | 80 | 44 |
| Silica SiO ₂ | 59 | 55 | 19 | 55 |
| Other | 2 | 2 | 1 | 2 |

Shelf Life

- Shelf life for Kaowool Cement B and Cera-Kote Coatings is 12 months and it is calculated from date of manufacture noted on label.

Standard Dimensions and Availability

- Cera-Kote Cements and Kaowool B Cement are manufactured in the United States. Please reference the table below and contact your regional Morgan Advanced Materials-Thermal Ceramics representative is available for your local business needs.

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

The product(s) represented are intended for industrial refractory applications. The values and application information in this datasheet are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product, and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials.