

Kaowool® Rigidizer

Datasheet Code US: 5-14-1006

Product Description

Kaowool Rigidizer is a colloidal silica compound for treating surfaces of fiber products to provide a degree of surface hardness and resistance to erosion.

Features

- Increases surface hardness and resistance to erosion
- Easily applied by brushing or spraying
- Freeze resistant

Applications

- Surface coating for ceramic fiber blanket and modules exposed to high velocity gases
- Surface treatment for vacuum formed fiber shapes to increase surface hardness

Installation Information

Kaowool Rigidizer is applied by brushing, dipping, rolling, and spraying. Suitable respiratory protection and ventilation are required when applied by spraying.

Materials to be rigidized should be free of all grease and oil. Kaowool Rigidizer receives its bonding action from the removal of physical water. Bonding may be accelerated by heating or oven drying. Curing is a function of the size of the shape and its geometry.

An application rate of one gallon per 25 square feet (2.3 m²) of ceramic fiber surface will render a hard surface without completely rigidizing the interior of the ceramic fiber body.

Handling

Although Kaowool Rigidizer contains an anti-freeze additive designed to lower the freezing point temperature and provide freeze/thaw stability, protecting the product from freezing is recommended. Normal shelf life is minimum twelve months in unopened containers that have been properly stored.

Availability

| Products | 1 gallon pail | 5 gallon pail |
|-------------------|----------------------|----------------------|
| Kaowool Rigidizer | 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 Advanced Materials plc.

Kaowool® Rigidizer

| Mastics Product Name | <u>Kaowool Rigidizer</u> |
|------------------------------------|--------------------------|
| Fiber Class | RCF |
| Material Grade | Coating |
| Physical Properties | |
| Color | clear |
| Classification Temperature, °F | 2300 |
| Classification Temperature, °C | 1260 |
| Freezing temperature, °F | 28 |
| Freezing temperature, °C | -2 |
| Density, wet, pcf | 75 |
| Denisty, wet, kg/m ³ | 1201 |
| Solids, % | 28-29 (silica) |
| Viscosity, centipose @ 77°F (25°C) | 4 |
| Specific gravity, @ 77°F (25°C) | 1.2 |
| pH Level | 9.7 |
| Shelf life, months | 12 |

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