

Kaowool[®] Rigidizer

Product Data Sheet



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.

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.

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 ft² (2.3m²) of ceramic fiber surface will render a hard surface without completely rigidizing the interior of the ceramic fiber body.

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

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Properties	Kaowool Rigidizer
Colour	Clear
Classification Temperature, °C (°F)	1260(2300)
Freezing Temperature, °C (°F)	28(-2)
Density, kg/m ³ (pcf), wet	1201 (75)
Solids, %	28-29(silicia)
Viscosity centipoise @ 25°C (77°F)	4
Specific gravity, @ 25°C (77°F)	1.2
pH Level	9.7

Shelf Life

- Shelf life for Kaowool Rigidizer is 24 months and it is calculated from date of manufacture noted on label.

Standard Dimensions and Availability

- Kaowool Rigidizer is manufactured in the United States. For availability questions, please contact your regional Morgan Advanced Materials-Thermal Ceramics representative for your local business needs.

	<u>Kaowool Rigidizer</u>
1 gallon pail	X
5 gallon pail	X

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