

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

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

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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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