

## Cera-Preg: Inorganic Refractory Rigidizer

### DESCRIPTION

Cera-Preg is a highly refractory air-setting inorganic surface rigidizer designed for refractory fibre products. It penetrates into the surface of the fibrous body, bonds the fibres together to achieve a harder more abrasive and erosion-resistant surface. Cera-Preg is stabilized against damage from freezing, however repeated freezing should be avoided.

Surface rigidizing is useful for preparing refractory fibre products to resist the abuse of contact with molten metals and other forms of mechanical abuse. This treatment should be approached cautiously as the surface resiliency of the refractory fibre body will be reduced and surface cracking may result in service.

### TYPE

Cera-Preg: Inorganic Refractory Rigidizer.

### TEMPERATURE LIMIT

1260°C

### APPLICATIONS

Cera-Preg may be applied on refractory fibre felts, blankets, vacuum-formed products and other high temperature insulations when rigidizing is necessary. It may be applied by means of spraying, brushing, dipping or rolling. An application method should be selected to enhance penetration 3.2 to 6.4mm (1/8" to 1/4") into the surface. When spraying, suitable respiratory protection and ventilation is required. Evaporation of water will fully cure Cera-Preg. Heating or oven-drying will enhance drying. Detailed handling instructions are on each container.

### AVAILABLE FORMS

Cera-Preg is available in: tins of 5 litres.

## Cera-Preg: Inorganic Refractory Rigidizer

Physical Properties	
Colour	grey
Estimated coverage per litre	
Brushed	1.2m <sup>2</sup>
Sprayed	2.4m <sup>2</sup>
Percent Solids	10
Continuous Temperature Limit	1260°C
Specific Heat (BTU/lb°C)	0.24-0.27
Shelf life	6 months

Chemical Composition	Cera-Preg As received	Cera-Preg Dry
SiO <sub>2</sub>	7.4	77.1
Al <sub>2</sub> O <sub>3</sub>	1.4	14.5
TiO <sub>2</sub>	-	-
Fe <sub>2</sub> O <sub>3</sub>	0.2	2.1
CaO	0.1	1.1
MgO	0.3	3.1
Alkali	0.2	2.1
Ignition loss	90.4	-

The values given herein are typical 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 Thermal Ceramics office to obtain current information.

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