MaxRigidizer

Inorganic Rigidizer

MaxRigidizer is an inorganic rigidizing solution that hardens the surface of ceramic fiber products after drying, improving their mechanical strength and abrasion resistance. By sealing the surface, it also helps reduce fiber shedding and the release of airborne fibers. **MaxRigidizer** can be applied by brush, roller, or spray to ceramic fiber blankets, modules, and other high-temperature insulation products.

The product is available in two grades – **MaxRigidizer 2300** and **MaxRigidizer 2700**, with temperature ratings of **2300°F** (1260°C) and **2700°F** (1482°C), respectively.

MaxRigidizer 2300 is recommended for applications exposed to high-velocity gas streams or direct flame impingement. For applications requiring enhanced high-temperature performance, **MaxRigidizer 2700** is recommended.

Key Features

- High-velocity Resistance
- Hot Gas Erosion of Flame Impingement
- Catalytic Converter Mat Protection
- Hardening Agent for Fiber Products

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Technical Data Sheet Rev. 3 (10/21/2026)

Typical Properties	MaxRigidizer 2300	MaxRigidizer 2700
Color	Green	Red
Maximum Use Temperature	2300°F (1260°C)	2700 °F (1482 °C)
Continuous Use Temperature	2000°F (1093 °C)	2400 °F (1316 °C)
Solids	25%	20%
Specific Gravity	1.14	1.13
Wet Density lb/ft³ (kg/m³)	62–78 (1000–1250)	62–79 (1000–1270)
Coverage sf/gal (approximate)	50 sf/gal (brushed) 100 sf/gal (sprayed)	50 sf/gal (brushed) 100 sf/gal (sprayed)

Presentation & Shelf Life	MaxRigidizer 2300	MaxRigidizer 2700
Packaging	5 gal Pail	5 gal Pail 55 gal Drums
Shelf Life	1 Year	1 Year

Installation Technique

MaxRigidizer is applied to the surface of ceramic fiber blankets and other high-temperature ceramic fiber insulation products by spraying, brushing, or rolling.

After air drying, **MaxRigidizer** strengthens and rigidizes the refractory ceramic fiber, providing improved toughness and enhanced abrasion resistance. It is typically applied after the ceramic fiber insulation has been installed.

Before application, ensure that the surface is clean and free of dust, grease, and oil. Drying may be accelerated by applying heat or oven drying. Curing time will vary depending on the size, thickness, and geometry of the part. When spraying, use appropriate respiratory protection and ensure adequate ventilation.

Typical Applications

- Surface coating for ceramic fiber blanket exposed to high velocity gases
- Adhesive for use in making composites and laminates
- Surface treatment for facuum formed shapes to increase surface hardness

Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

Please refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information.

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