

Ceramic Fiber Rigidizer

R12 Ceramic Fiber Rigidizer is a colloidal silica compound for treating surfaces of ceramic fiber products to provide a degree of surface hardness, or form a protective rigid surface to improve the resistance to erosion after air-drying. It can also soak ceramic fiber blanket to form in a hard specific shape. R12 is a liquid ready for use.



Characteristics:

- Increase surface hardness of ceramic fiber blanket and board
- Increase resistance to erosion of high velocity gas
- Bond composites and laminates
- Easily applied by brushing, dipping, rolling or spraying method.
- Thermal shock resistant
- Reflect heat

Application:

- Surfaces to be coated should be free of any grease and oil.
- Rigidizer can be applied by brushing, dipping, rolling, and spraying (suitable respiratory protection and ventilation are required when applied by spraying).
- Rigidizer receives its rigidizing action by air-drying for about 24 hours from the removal of physical water. The curing process can be accelerated by heating. Curing is a function of the coating thickness, size, and geometry, as well as humidity.
- One gallon of rigidizer covers approximately 35 square feet brushed, or 70 square feet sprayed surface.
- After curing, rigidizer will render a hard surface without completely rigidizing the interior of the ceramic fiber body

Storage:

Rigidizer must be protected from freezing. Normal shelf life is 12 months in unopened containers that have been properly stored.