

Fiberfrax® Silplate® Mass 1500

Silplate® Mass 1500 is a hot face coating material for use over ceramic fiber modules, castables and refractory bricks. It is manufactured from the combination of high-temperature fibrous materials and sintered high-purity, refractory oxides. Silplate Mass 1500 is a compound ready for application at temperatures up to 1500°C (2732°F). It may be applied on ceramic fiber insulation to form a surface that is highly resistant to abrasion and flame impingement.

It has virtually no shrinkage, minimizing the appearance of cracks even when operating up to its temperature limit. When exposed to temperatures above 870°C (1600°F), Silplate Mass 1500 forms a ceramic bond providing further strength and integrity.

Product Information

- Classification Temperature: 1500°C
- Color: Orange
- Wet Density: 80 pcf (nominal)
- Dry Density: 55 pcf (nominal)
- Application Thickness: 1/8" to 1"
- Packaging: 25 kg (55 lb.) Pail
- Resistance to Gas Velocity: 200 ft./second
- Shelf Life: 6 Months

Silplate Mass 1500 Applications

Silplate Mass 1500 is applied on ceramic fiber lining systems with the following benefits:

- Increased abrasion resistance and durability
- Underlying fiber protected from shrinkage and/or chemical attack
- Minimized heat loss through cracks in the insulation
- Increased wind velocity resistance
- Heat Reflectance/Energy Efficiency



Silplate Mass 1500 is applied on hard refractory surfaces with the following benefits:

- Increased abrasion resistance and durability
- Minimized heat loss
- Increased refractory life
- Heat Reflectance/Energy Efficiency
- Thermal shock protection

Method of Application

- Silplate Mass 1500 can be applied by pumping, gunning or troweling

Typical Composition

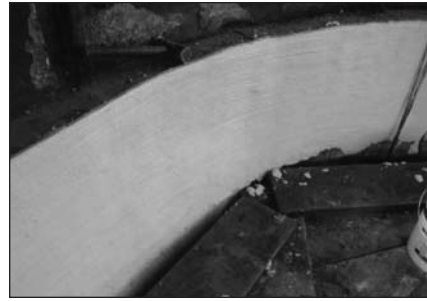
- Refractory Oxides, Silica and Alumina

For additional information about product performance, to identify the recommended product for your application, or for a specific heatflow calculation, please contact the Unifrax Application Engineering Group at 716-278-3888.

Data are average results of tests conducted under standard procedures and are subject to variation.

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

Typical Applications



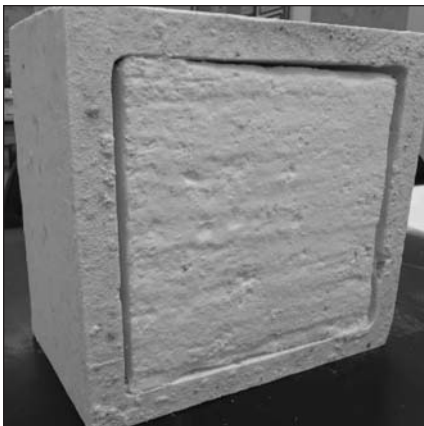
Application on refractory surfaces



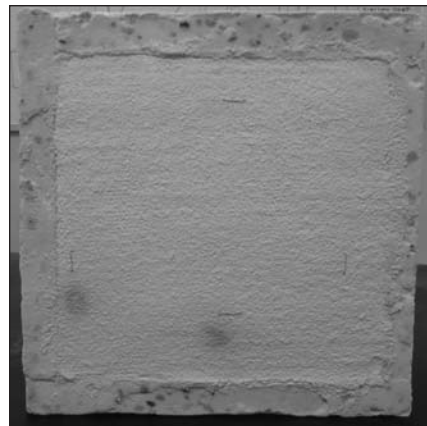
Application on ceramic fiber modules

Shrinkage Testing

- **Silplate Mass 1500** – Application on the surface of a ceramic fiber module
- Exposure Temperature: **1500°C (2732°F)** – Time: **120 hours**



Module without **Silplate Mass 1500**



Module with **Silplate Mass 1500**