Superwool® Sealcoat™ HT

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Features

- Pliable, putty-like material
- Installation ready
- Good abrasion resistance
- Resistant to thermal and mechanical breakdown
- Improves insulation efficiency and erosion resistance

Applications

- Grout refractory joints and gaps
- Hot face coating over fiber or dense refractory
- Seals furnace lining cracks
- Back-up lining
- Furnace maintenance and emergency repairs

Product Description

Superwool Sealcoat HT insulation is composed of Superwool HT, a low biopersistent fiber, organic polymers, inorganic binders and other proprietary ingredients. This product is a pliable, low shrinkage, putty-like material that is supplied wet and premixed, ready for installation by a pneumatically applied system. The product is designed to seal furnace lining cracks and can be used as a hot face coating over fiber insulation and other refractory surfaces to restore and improve lining performance.

Installation

The HS-100 Extrusion pump is a piston extrusion pump which has been modified to pump Superwool Sealcoat HT in a fast, efficient manner. These modifications optimize the pump's capabilities to provide a complete delivery system.
The Sealcoat Spray Nozzle assembly is designed to work in conjunction with the HS-100 Extrusion pump. The combined system allows for an efficient wet gunning technology.
Sealcoat can also be applied by trowel or caulking gun.

Superwool® Sealcoat™ HT

Physical Properties

	Superwool Sealcoat HT
Continuous Use Temperature, °F (°C)	2600 (1427)
Maximum temperature rating, °F (°C)	2700 (1482)
Solids, %	46
Density, pcf (kg/m^3)	
wet, as received	75 (1200)
dried @ 230°F (110°C)	32 - 36 (513 - 577)
Compressive strength, psi (Mpa), 10% deformation	
dried	150 (1.04)
fired @ 2000°F (1093°C)	225 (1.55)
24 hours @ 2400°F (1315°C)	230 (1.59)
Modulus of rupture, psi (Mpa)	
dried	200 (1.38)
24 hours @ 2400°F (1315°C)	210 (1.45)
Permanent linear change, %	
24 hours @ 2000°F (1093°C)	-1.4
@ 2400°F (1315°C)	-1.4
@ 2600°F (1427°C)	-1.5
Shelf Life, minimum, months	12

Chemical Analysis, % weight based after firing

Silica, SiO_2	86
Calcium oxide, CaO	12
Other	2

Aluminum Resistant Cup Test

7075 alloy, 1500°F (816°C), 72 hours	no penetration

Thermal Conductivity, BTU•in/inhr•ft^2•°F (w/m•K), ASTM C417

Mean Temperature	
@ 500°F (260°C)	0.8
@ 1000°F (538°C)	1.0
@ 1500°F (816°C)	1.4
@ 2000°F (1093°C)	2.0

Product Availability

1 gallon pail
5 gallon straight sided pail
11 oz.caulking tube
32 oz. caulking tube