

## Superwool® Sealcoat™ HT

### Product Description

Superwool Sealcoat HT insulation is composed of Superwool HT, a low bio-persistent 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.

### Aluminum Resistant Cup Test

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

### Features

- Pliable, putty-like material composed of low bio-persistent fibers, proprietary ingredients and inorganic binders
- Ready to use
- Resistant to thermal and mechanical breakdown
- Non-wetted in molten aluminium

### 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

### 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.

### Availability

<u>Products</u>	<u>1 gallon pail</u>	<u>5 gallon pail</u>	<u>11 oz caulking tube</u>	<u>32 oz caulking tuber</u>
Superwool Sealcoat HT	X	X	X	X

The values given herein are typical average 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 Morgan Advanced Materials office to obtain current information. This product may be covered by one or more patents or foreign equivalents: A list of patent numbers is available upon request to Morgan Advance Materials plc.

## Superwool® Sealcoat™ HT

<b>Mastics Product Name</b>	<b><u>Superwool Sealcoat HT</u></b>
Fiber Class	AES
Material Grade	Coating
<b>Physical Properties</b>	
Color	off white
Continuous Use Temperature, °F	2800
Continuous Use Temperature, °C	1538
Classification Temperature, °F	2900
Classification Temperature, °C	1593
Density, dried @ 230°F, pcf	32-36
Denisty, dried @ 110°C, kg/m <sup>3</sup>	513-577
Density, wet, pcf	75
Denisty, wet, kg/m <sup>3</sup>	1201
Yield, cubic ft / gal	0.13
Yield, cubic m / L	0.004
Solids, %	46
Shelf life, months	12
<b>Aluminum Resistant cup test</b>	
1500°F (816°C), 707.5 alloy, 72 hours	No penetration
<b>Modulus of Rupture, MOR, dried, psi</b>	
230°F	200
2400°F	210
<b>Modulus of Rupture, MOR, dried, MPa</b>	
110°C	1.38
1315°C	1.45
<b>Compressive strength @ 10% deformation, dried, psi</b>	
230°F	150
<b>Compressive strength @ 10% deformation, dried, MPa</b>	
110°C	1.04
<b>Compressive strength @ 10% deformation, fired, psi</b>	
2000°F	225
2400°F	230
<b>Compressive strength @ 10% deformation, fired, MPa</b>	
1093°C	1.55
1315°C	1.59

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## Superwool<sup>®</sup> Sealcoat<sup>™</sup> HT

<b>Mastics Product Name</b>	<b><u>Superwool Sealcoat HT</u></b>
<b>Permanent Linear Shrinkage, %, 24 hours</b>	
2000°F (1093°C)	-1.4
2400°F (1316°C)	-1.4
2600°F (1426°C)	-1.5
2800°F (1538°C)	-1.6
<b>Chemical Analysis, % weight basis after firing</b>	
Silica, SiO <sub>2</sub>	86
Calcium oxide, CaO	12
Other	2
<b>Thermal Conductivity, BTU•in/hr•ft<sup>2</sup>, per ASTM C201</b>	
500°F	0.8
1000°F	1
1500°F	1.4
2000°F	2
<b>Thermal Conductivity, W/m•K, per ASTM C201</b>	
260°C	0.11
538°C	0.14
816°C	0.2
1093°C	0.29

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