

Densit

WearFlex 1000HT™

High-Temp!

Chemically Bonded Bauxite-Ceramic



Features & Benefits

Wear-Con Densit® WearFlex 1000HT™ High-Temp Chemically Bonded Bauxite-Ceramic wear resistant lining is a trowellable, one-component ready-mix wear compound combined with wear-resistant aggregates to provide a tough and long-lasting wear solution in extreme heat situations. WearFlex 1000HT™ is applied directly to an anchoring mesh in thicknesses from 3/4" to 2", providing seamless graduation in lining thicknesses on almost any shape without vulnerable joints. Fast and easy to install, even overhead, WearFlex 1000HT™ can be used after just 24 hours.

Installation

Wear-Con Densit® WearFlex 1000HT™ can be installed in five simple steps:

1. Install mesh. WearFlex 1000HT™ should be installed on a stainless expanded metal mesh welded on the steel casing.
2. Mix dry WearFlex 1000HT™ compound for 1 minute with a paddle mixer. Product must be kept completely dry until used.
3. Add water and mix for 8 minutes with a paddle mixer. A significant change in consistency of the material (from a dry powder to wet mortar) must be observed within 3 minutes from addition of water.
4. When the mix is consistent, stainless steel fibers are added.
5. Trowel WearFlex 1000HT™ onto mesh. Avoid making contact with aluminum or galvanized steel when using WearFlex 1000HT™.
6. Apply Densit® Curing Compound.

For more details refer to the "Densit® WearFlex™ Manual".

Technical Specifications

Wear-Con Densit® WearFlex 1000HT™ is a high-strength wear compound combined with bauxite aggregates to provide excellent protection against severe erosive wear in extreme temperatures up to 2190°F (see reverse for more technical data).

Sizes

Wear-Con Densit® WearFlex 1000HT™ is delivered in 55 lb bags.

(See reverse for more technical data.)

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Liberty, MO 64068

DENS-Cwf

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Technical Data			
Properties		Standard	Densit® WearFlex 1000HT™
Density	kg/m ³ (lb/ft ³)	EN 1015-6	2800 (175)
Compressive Strength	MPa	EN 12190	130
Flexural Strength	MPa	EN 196-1	22
Dynamic E-modul	MPa	EN	70 - 80 10 ³
Casting Shrinkage	vol. %	-	0.2
Thermal Conductivity	w/m°C	-	1.5
Coeff. of Thermal Expansion	1/°C (1/°F)	EN 1770	6.9x10 ⁻⁶ (3.8x10 ⁻⁶)
Heat Capacity	KJ/kg°C	-	0.9 - 1.0
Max. Service Temp.	°C (°F)	-	1200 (2190)
Shrinkage After Firing	at 500°C (932°F)		0.1%
	at 800°C (1472°F)	-	0.3%
	at 1200°C (2192°F)		0.3%
Abrasion Resistance	cm ³ /50cm ²	DIN 52108	2.0 - 3.0
Erosive Resistance	min/cm ³	-	70
Chemical Composition	CaO		7%
	SiO ₂		7%
	Al ₂ O ₃ + TiO ₂	EN 196-10	83%
	Fe ₂ O ₃		<0.8%
	Cr ⁶⁺		<0.0002%
Bag Size	kg (lb)	-	25 (55)
Pallet Size	kg (lb)	-	1250 (2755)

Consumption	
at 25 mm	
Densit® WearFlex 1000HT™	68 kg/m ²
Steel Fibers*	3.1 kg/m ²
Densit® Anchoring Mesh	1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²

Consumption	
at 40 mm	
Densit® WearFlex 1000HT™	109 kg/m ²
Steel Fibers*	4.9 kg/m ²
Densit® Anchoring Mesh	1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²

* Steel fiber selection depends on temperature and chemical environment. See steel fiber data sheet.

(See reverse for more information.)



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