

WearFlex 1000™

Chemically Bonded Bauxite-Ceramic



Features & Benefits

Wear-Con Densit® WearFlex 1000™ 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. WearFlex 1000™ is applied directly to an anchoring mesh in thicknesses from ¼” to 2”, providing seamless graduation in lining thicknesses on almost any shape without vulnerable joints. Fast and easy to install, even overhead, WearFlex 1000™ can be used after just 24 hours.

Installation

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

1. Install mesh. WearFlex 1000™ should be installed on a standard expanded metal mesh welded on the steel casing.
2. Mix dry WearFlex 1000™ 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. Trowel WearFlex 1000™ onto mesh. Avoid making contact with aluminum or galvanized steel when using WearFlex 1000™.
5. Apply Densit® Curing Compound.

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

Technical Specifications

Wear-Con Densit® WearFlex 1000™ is a high-strength wear compound combined with bauxite aggregates to provide excellent protection against severe erosive wear at temperatures up to 750°F (see reverse for more technical data).

Sizes

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

(See reverse for more technical data.)

Densit

2845 E. Heartland Drive
Liberty, MO 64068

DENS-C-wf

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888-4WEARCON (888-493-2726)
816-587-1923 • Fax 816-587-2055
info@wearcon.com
www.wearcon.com



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Technical Data			
Properties		Standard	Densit® WearFlex 1000™
Density	kg/m ³ (lb/ft ³)	EN 1015-6	2650 (165)
Compressive Strength	MPa	EN 12190	200
Flexural Strength	MPa	EN 196-1	25
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	10x10 ⁻⁶ (5.6x10 ⁻⁶)
Heat Capacity	KJ/kg°C	-	0.9 - 1.0
Max. Service Temp.	°C (°F)	-	400 (750)
Abrasion Resistance	cm ³ /50cm ²	DIN 52108	1.5 - 2.0
Erosive Resistance	min/cm ³	-	85
Chemical Composition	CaO	EN 196-10	20%
	SiO ₂		30%
	Al ₂ O ₃ + TiO ₂		48%
	Fe ₂ O ₃		<0.7%
	Cr ⁶⁺		<0.0002%
Bag Size	kg (lb)	-	25 (55)
Pallet Size	kg (lb)	-	1250 (2755)

Consumption	
at 25 mm	
Densit® WearFlex 1000™	65 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 1000™	104 kg/m ²
Densit® Anchoring Mesh	1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²

The figures contained herein are typical values. The dry mortar is quality inspected in accordance with the Densit® ISO 9001:2000 certified by Lloyd's Register Quality Assurance.

Please contact Wear-Concepts, Inc. for more information.

(See reverse for more information.)



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