



# Densit

# WearFlex 3000™

Chemically Bonded Silicon-Carbide-Ceramic



## Features & Benefits

Wear-Con Densit® WearFlex 3000™ Chemically Bonded Silicon-Carbide-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 3000™ 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 3000™ can be used after just 24 hours.

## Installation

Wear-Con Densit® WearFlex 3000™ can be installed in five simple steps:

1. Install mesh. WearFlex 3000™ should be installed on a standard expanded metal mesh welded on the steel casing.
2. Mix dry WearFlex 3000™ 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 3000™ onto mesh. Avoid making contact with aluminum or galvanized steel when using WearFlex 3000™.
5. Apply Densit® Curing Compound.

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

## Technical Specifications

Wear-Con Densit® WearFlex 3000™ is a high-strength wear compound combined with silicon-carbide aggregates to provide superior protection against severe erosive wear at temperatures up to 750°F (see reverse for more technical data).

## Sizes

Wear-Con Densit® WearFlex 3000™ is delivered in 55 lb bags.

(See reverse for more technical data.)

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Technical Data			
Properties		Standard	Densit® WearFlex 3000™
Density	kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	EN 1015-6	2575 (161)
Compressive Strength	MPa	EN 12190	130
Flexural Strength	MPa	EN 196-1	20
Dynamic E-modul	MPa	EN	70 - 80 10 <sup>3</sup>
Casting Shrinkage	vol. %	-	0.2
Thermal Conductivity	w/m°C	-	5.0
Coeff. of Thermal Expansion	1/°C (1/°F)	EN 1770	10x10 <sup>-6</sup> (5.6x10 <sup>-6</sup> )
Heat Capacity	KJ/kg°C	-	0.9 - 1.0
Max. Service Temp.	°C (°F)	-	400 (750)
Abrasion Resistance	cm <sup>3</sup> /50cm <sup>2</sup>	DIN 52108	0.5 - 1.0
Erosive Resistance	min/cm <sup>3</sup>	-	280
Chemical Composition	CaO	EN 196-10	17%
	SiO <sub>2</sub>		14%
	SiC		59%
	Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>		7%
	Fe <sub>2</sub> O <sub>3</sub>		<0.6%
	Cr <sup>6+</sup>		<0.0002%
Bag Size	kg (lb)	-	25 (55)
Pallet Size	kg (lb)	-	1250 (2755)

Consumption	
at 25 mm	
Densit® WearFlex 3000™	62 kg/m <sup>2</sup>
Densit® Anchoring Mesh	1 m <sup>2</sup> /m <sup>2</sup>
Densit® Curing Compound	0.25 l/m <sup>2</sup>

Consumption	
at 40 mm	
Densit® WearFlex 3000™	99 kg/m <sup>2</sup>
Densit® Anchoring Mesh	1 m <sup>2</sup> /m <sup>2</sup>
Densit® Curing Compound	0.25 l/m <sup>2</sup>

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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