



**Densit**

# WearCast 2000HT™

*High-Temp!*

Chemically Bonded Corundum-Ceramic



## Features & Benefits

Wear-Con Densit® WearCast 2000HT™ Chemically Bonded Corundum-Ceramic wear resistant lining is a castable, trowellable one-component ready-mix wear compound, able to conform to almost any shape and size specification, even in extreme temperatures. Frequently used to line pipes, bends, and other system components, **WearCast 2000HT™** is fast and easy to install and can be used after just 24 hours.

## Installation

Wear-Con Densit® WearCast 2000HT™ can be installed in five simple steps:

1. Install mesh. Install or build mold. **WearCast 2000HT™** should be cast in suitable molds with adequate reinforcement such as steel bars and/or expanded metal mesh.
2. Mix dry **WearCast 2000HT™** compound for 1 minute with a paddle mixer. Product must be kept completely dry until used.
3. Add water and mix for 6 minutes with a paddle mixer. Add fibers and mix for another 3 minutes. 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. Pour mixed **WearCast 2000HT™** into mold under vibration. Avoid making contact with aluminum or galvanized steel when using **WearCast 2000HT™**.
5. Remove mold from **WearCast 2000HT™** after adequate curing time.

## Technical Specifications

Wear-Con Densit® WearCast 2000HT™ is a high-strength wear compound combined with corundum aggregates to provide excellent protection against severe wear in extreme temperatures up to 2190°F (see reverse for more technical data).

## Sizes

Wear-Con Densit® WearCast 2000HT™ is delivered in 55 lb bags.

*(See reverse for more technical data.)*

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Technical Data			
Properties		Standard	Densit® WearCast 2000HT™
Density	kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	EN 1015-6	3050 (190)
Compressive Strength	MPa	EN 12190	170
Flexural Strength	MPa	EN 196-1	16
Dynamic E-modul	MPa	EN	70 - 80 10 <sup>3</sup>
Casting Shrinkage	vol. %	-	0.2
Thermal Conductivity	w/m°C	-	1.5
Coeff. of Thermal Expansion	1/°C (1/°F)	EN 1770	6.9x10 <sup>-6</sup> (3.8x10 <sup>-6</sup> )
Heat Capacity	KJ/kg°C	-	0.9 - 1.0
Max. Service Temp.	°C (°F)	-	1200 (2190)
Abrasion Resistance	cm <sup>3</sup> /50cm <sup>2</sup>	DIN 52108	0.5 - 1.0
Erosive Resistance	min/cm <sup>3</sup>	-	170
Chemical Composition	CaO	EN 196-10	6%
	SiO <sub>2</sub>		6%
	Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>		87%
	Fe <sub>2</sub> O <sub>3</sub>		<0.3%
	Cr <sup>6+</sup>		<0.0002%
Bag Size	kg (lb)	-	25 (55)
Pallet Size	kg (lb)	-	1250 (2755)

Consumption at 25 mm	
Densit® WearCast 2000HT™	76 kg/m <sup>2</sup>
Steel Fiber	3.4 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® WearCast 2000HT™	121 kg/m <sup>2</sup>
Steel Fiber	5.5 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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