WearCast 2000™

Chemically Bonded Corundum-Ceramic

Features & Benefits

Wear-Con Densit® WearCast 2000™ 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. Frequently used to line pipes, bends, and other system components, **WearCast 2000™** is fast and easy to install and can be used after just 24 hours.

Installation

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

1. Install mesh. Install or build mold. **WearCast 2000™** should be cast in suitable molds with adequate reinforcement such as steel bars and/or expanded metal mesh.
2. Mix dry **WearCast 2000™** 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 2000™** into mold under vibration. Avoid making contact with aluminum or galvanized steel when using **WearCast 2000™**.
5. Remove mold from **WearCast 2000™** after adequate curing time.

Technical Specifications

Wear-Con Densit® WearCast 2000™ is a high-strength wear compound combined with corundum aggregates to provide excellent protection against severe wear at temperatures up to 750°F (see reverse for more technical data).

Sizes

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

(See reverse for more technical data.)

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Technical Data			
Properties		Standard	Densit® WearCast 2000™
Density	kg/m³ (lb/ft³)	EN 1015-6	2950 (184)
Compressive Strength	MPa	EN 12190	170
Flexural Strength	MPa	EN 196-1	23
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	cm³/50cm²	DIN 52108	0.5 - 1.0
Erosive Resistance	min/cm³	-	140
Chemical Composition	CaO	EN 196-10	18%
	SiO_2		25%
	Al_2O_3+ TiO_2		55%
	Fe_2O_3		<0.2%
	Cr^{6+}		<0.0002%
Bag Size	kg (lb)	-	25 (55)
Pallet Size	kg (lb)	-	1250 (2755)

Consumption at 25 mm	
Densit® WearCast 2000™	73 kg/m²
Steel Fiber	3.3 kg/m²
Densit® Anchoring Mesh	1 m²/m²
Densit® Curing Compound	0.25 l/m²

Consumption at 40 mm	
Densit® WearCast 2000™	117 kg/m²
Steel Fiber	5.3 kg/m²
Densit® Anchoring Mesh	1 m²/m²
Densit® Curing Compound	0.25 l/m²

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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