



Densit

WearCast 500™

Chemically Bonded Quartz-Ceramic



Features & Benefits

Wear-Con Densit® WearCast 500™ Chemically Bonded Quartz-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 500™ is fast and easy to install and can be used after just 24 hours.

Installation

Wear-Con Densit® WearCast 500™ can be installed in five simple steps:

1. Install mesh. Install or build mold. WearCast 500™ should be cast in suitable molds with adequate reinforcement such as steel bars and/or expanded metal mesh.
2. Mix dry WearCast 500™ compound for 1 minute with a paddle mixer. Product must be kept completely dry until used.
3. Add water and fibers, then 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. Pour mixed WearCast 500™ into mold under vibration. Avoid making contact with aluminum or galvanized steel when using WearCast 500™.
5. Remove mold from WearCast 500™ after adequate curing time.

Technical Specifications

Wear-Con Densit® WearCast 500™ is a high-strength wear compound combined with quartz aggregates to provide excellent protection against moderate wear at temperatures up to 750°F (see reverse for more technical data).

Sizes

Wear-Con Densit® WearCast 500™ is delivered in 55 lb bags.

(See reverse for more technical data.)

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Technical Data			
Properties		Standard	Densit® WearCast 500™
Density	kg/m ³ (lb/ft ³)	EN 1015-6	2400 (150)
Compressive Strength	MPa	EN 12190	130
Flexural Strength	MPa	EN 196-1	16
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	2.5 - 3.5
Erosive Resistance	min/cm ³	-	60
Chemical Composition	CaO	EN 196-10	18%
	SiO ₂		79%
	Al ₂ O ₃ + TiO ₂		1%
	Fe ₂ O 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 500™	60 kg/m ²
Densit® Steel Fiber 750°F	2.7 kg/m ²
Densit® Anchoring Mesh	1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²

Consumption	
at 40 mm	
Densit® WearCast 500™	95 kg/m ²
Densit® Steel Fiber 750°F	4.3 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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