

Densit® WearCast 3000

Chemically Bonded Silicium-Carbide-Ceramic

Densit® WearCast 3000 wear resistant linings provide excellent protection against heavy erosive wear at temperatures up to 400°C (750°F).

Consumption at 25 mm	
Densit® WearCast 3000	65 kg/m ²
Steel fiber*	2.9 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 3000	105 kg/m ²
Steel fiber*	4.7 kg/m ²
Densit® Anchoring mesh	1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²
*See the data sheet for steel fibers	

DENSIT® WEARCAST 3000

- Install mesh
- Install or build mold
- Mix dry compound with water and fibers
- Add water and mix for 6 minutes
- Add appropriate steel fibers* and mix another 3 minutes
- Pour mix into mold under vibration
- Remove mold after adequate curing time

Densit® WearCast 3000 is a castable one-component ready-mix delivered in 25 kg bags.

Product must be kept completely

dry until used.

A paddle mixer must be used for mixing the compound. 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.

Avoid making contact with aluminium or galvanized steel when using Densit® compound. Densit® WearCast 3000 should be cast in suitable molds with adequate reinforcement like steel bars and/or standard expanded metal mesh.

Technical Data



The figures given 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 for further information.

PROPERTIES		Standard	Densit® WearCast 3000
Density	kg/m ³ (lb/ft ³)	EN 1015-6	2675 (167)
Compressive strength	MPa	EN 12190	150
Flexural strength	MPa	EN 196-1	20
Dynamic E-modul	MPa	EN	70-80 10 ³
Casting shrinkage	vol. %		0.2
Thermal conductivity	w/m°C		5.0
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 temperature	°C (°F)		400 (750)
Abrasion resistance	cm ³ /50cm ²	DIN 52108	0.5-1.0
Erosive resistance	min/cm ³		300
Chemical composition	% CaO		16
	% SiO ₂		22
	% SiC		59
	% Al ₂ O ₃ + TiO ₂		1
	% Fe ₂ O ₃		<0.5
	% C r ⁶⁺	EN 196-10	<0.0002
Bag size	kg		25
Pallet size	kg		1250

Your Complete Resource for
Innovative Wear Solutions

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