Data sheet

Densit® WearCast 2000

Chemically Bonded Corundum-Ceramic

Densit® WearCast 2000 wear resistant linings provide excellent protection against heavy erosive wear at temperatures up to 400°C (750°F).

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

*See the data sheet for steel fibers

DENSIT® WEARCAST 2000

- 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 2000 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 2000 should be cast in suitable molds with adequate reinforcement like steel bars and/or standard expanded metal mesh.

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 temperature	°C (°F)		400 (750)
Abrasion resistance	cm³/50cm²	DIN 52108	0.5-1.0
Erosive resistance	min/cm³		140
Chemical composition	% CaO % SiO_2 % Al_2O_3 + TiO_2 % Fe_2O_3 % Cr^{6+}	EN 196-10	18 25 55 <0.2 <0.0002
Bag size	kg		25
Pallet size	kg		1250

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.

Your Complete Resource for Innovative Wear Solutions

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