

Data sheet

Densit® WearCast 2000

- Chemically bonded Corundum-Ceramic

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

Consumption at 25 mm	
Densit® WearCast 2000	73 kg/m ²
Steel fibres *)	3.3 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 2000	117 kg/m ²
Steel fibres *)	5.3 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 fibres

DENSIT® WEARCAST 2000

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

The bags must be stored on a dry stock to maintain the good properties of the compound. A paddle mixer must be used for mixing the compound. A significant change in consistency of the material (from dry to plastic) must be observed within 3 minutes from addition of water. Avoid Densit® compound to make contact with aluminium or galvanised steel. Densit® WearCast 2000 should be cast in suitable moulds with adequate reinforcement like steel bars and/or standard expanded metal mesh.

Densit® WearCast 2000 is a castable one-component ready-mix delivered in 25 kg bags.

Technical data



The figures given are typical values.

Please contact Biga Group for further information.

PROPERTIES		Standard	Densit® WearCast 2000
Density	kg/m ³ (lb/ft ³)	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	cm ³ /50cm ²	DIN 52108	0.5-1.0
Erosive resistance	min/cm ³		140
Chemical composition	% CaO		18
	% SiO ₂		25
	% Al ₂ O ₃ + TiO ₂		55
	% Fe ₂ O ₃		<0.2
	% Cr ⁶⁺	EN 196-10	<0.0002
Bag size	kg		25
Pallet size	kg		1250

