

Data sheet

Densit® WearCast 1000

- Chemically bonded Bauxite-Ceramic

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

Consumption at 25 mm	
Densit® WearCast 1000	69 kg/m ²
Densit® Steel fiber 400°C	3.1 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 1000	110 kg/m ²
Densit® Steel fiber 400°C	4.9 kg/m ²
Densit® Anchoring mesh	1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²

DENSIT® WEARCAST 1000

- Install mesh
- Install or build mould
- Mix dry compound with water and fibres
- Pour mix into mould under vibration
- Remove mould after adequate curing time

Densit® WearCast 1000 is a castable one-component ready-mix delivered in 25 kg bags.

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 1000 should be cast in suitable moulds 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 Densit a/s or the nearest distributor for further information.

PROPERTIES	Standard	Densit® WearCast 1000
Density	kg/m ³ (lb/ft ³)	EN 1015-6 2800 (175)
Compressive strength	MPa	EN 12190 210
Flexural strength	MPa	EN 196-1 28
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 1.5-2.0
Erosive resistance	min/cm ³	85
Chemical composition	% CaO % SiO ₂ % Al ₂ O ₃ +TiO ₂ % Fe ₂ O ₃ % C r ⁶⁺	EN 196-10 22 15 60 <0.8 <0.0002
Bag size	kg	25
Pallet size	kg	1200