

# Data sheet

# Densit® WearCast 2000 HT

## - Chemically bonded Corundum-Ceramic

**Densit® WearCast 2000 HT wear resistant linings provide superior protection against heavy erosive wear at temperatures up to 1200°C (2190°F).**

Consumption at 25 mm	
Densit® WearCast 2000 HT	76 kg/m <sup>2</sup>
Steel fibres *)	3.4 kg/m <sup>2</sup>
Densit® Anchoring mesh	1 m <sup>2</sup> /m <sup>2</sup>
Densit® Curing Compound	0.25 l/m <sup>2</sup>
Consumption at 40 mm	
Densit® WearCast 2000 HT	121 kg/m <sup>2</sup>
Steel fibres *)	5.5 kg/m <sup>2</sup>
Densit® Anchoring mesh	1 m <sup>2</sup> /m <sup>2</sup>
Densit® Curing Compound	0.25 l/m <sup>2</sup>

\*) Steel fibre selection depends on temperature and chemical environment. See the data sheet for steel fibres

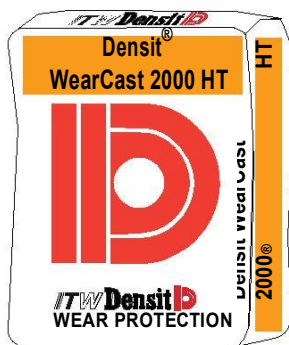
### DENSIT® WEARCAST 2000 HT

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

Densit® WearCast 2000 HT 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 HT
Density	kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	EN 1015-6	3050 (190)
Compressive strength	MPa	EN 12190	170
Flexural strength	MPa	EN 196-1	16
Dynamic E-modul	MPa	EN	70-80 10 <sup>3</sup>
Casting shrinkage	vol. %		0.2
Thermal conductivity	w/m°C		1.5
Coeff. of thermal expansion	1/°C (1/°F)	EN 1770	6.9x10 <sup>-6</sup> (3.8x10 <sup>-6</sup> )
Heat capacity	KJ/kg°C		0.9-1.0
Max. service temperature	°C (°F)		1200 (2190)
Abrasion resistance	cm <sup>3</sup> /50cm <sup>2</sup>	DIN 52108	0.5-1.0
Erosive resistance	min/cm <sup>3</sup>		170
Chemical composition	% CaO		6
	% SiO <sub>2</sub>		6
	% Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>		87
	% Fe <sub>2</sub> O <sub>3</sub>		<0.3
	% Cr <sup>6+</sup>	EN 196-10	<0.0002
Bag size	kg		25
Pallet size	kg		1250



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