

# Densit® WearCast 500

## Chemically Bonded Quartz-Ceramic

Densit® WearCast 500 wear resistant linings provide excellent protection against moderate wear at temperatures up to 400°C (750°F).

Consumption at 25 mm	
Densit® WearCast 500	60 kg/m <sup>2</sup>
Densit® Steel fiber 400°C	2.7 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 500	95 kg/m <sup>2</sup>
Densit® Steel fiber 400°C	4.3 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>

### DENSIT® WEARCAST 500

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

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

Densit® WearCast 500 is a castable one-component ready-mix delivered in 25 kg bags.

Product must be kept completely dry until used.

## 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 500
Density	kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	EN 1015-6 2400 (150)
Compressive strength	MPa	EN 12190 130
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	10x10 <sup>-6</sup> (5.6x10 <sup>-6</sup> )
Heat capacity	KJ/kg°C	0.9-1.0
Max. service temperature	°C (°F)	400 (750)
Abrasion resistance	cm <sup>3</sup> /50cm <sup>2</sup>	DIN 52108 2.5-3.5
Erosive resistance	min/cm <sup>3</sup>	60
Chemical composition	% CaO % SiO <sub>2</sub> % Al <sub>2</sub> O <sub>3</sub> +TiO <sub>2</sub> % Fe <sub>2</sub> O <sub>3</sub> % Cr <sup>6+</sup>	EN 196-10 18 79 1 <0.2 <0.0002
Bag size	kg	25
Pallet size	kg	1250

Your Complete Resource for  
Innovative Wear Solutions

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