

Data sheet

Densit® WearFlex 500

- Chemically bonded Quartz-Ceramic

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

Typical consumption of materials

25 mm lining	
Densit® WearFlex 500 Binder	30 kg/m ²
Wear 500 Sand	32.5 kg/m ²
Densit® Anchoring mesh	1.1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²
40 mm lining	
Densit® WearFlex 500 Binder	45 kg/m ²
Wear 500 Sand	49 kg/m ²
Densit® Anchoring mesh	1.1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²

DENSIT® WEARFLEX 500

- “ Install mesh
- “ Mix one bag Densit® WearFlex 500 Binder and one bag Wear 500 sand for 1 minute
- “ Add water and mix for 8 minutes
- “ Trowel mix onto mesh
- “ Apply Densit® Curing Compound
- “ For more details refer to the Densit® WearFlex Manual+

Densit® WearFlex 500 is a trowellable two-component dry mortar.

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® WearFlex 500 should be installed on a standard expanded metal mesh welded on the steel casing.

Technical data



The figures given are typical values.

Please contact Biga Group for further information.

PROPERTIES		Standard	Densit® WearFlex 500
Density	kg/m ³ (lb/ft ³)	EN 1015-6	2400 (150)
Compressive strength	MPa	EN 12190	100
Flexural strength	MPa	EN 196-1	16
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	2.5-3.5
Erosive resistance	min/cm ³		55
	% CaO		18
	% SiO ₂		80
Chemical composition	% Al ₂ O ₃ +TiO ₂		1
	% Fe ₂ O ₃		<0.2
	% Cr ⁶⁺	EN 196-10	<0.0002
Bag size Densit® WearFlex 500 Binder	kg		22.8
Bag size Wear 500 Sand	kg		25
Pallet size Densit® WearFlex 500 Binder	kg		1140
Pallet size Wear 500 Sand	kg		1250



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