



TECHNICAL DATA SHEET – DENSIT® WEARFLEX 500

Revised: 02/2017

DESCRIPTION

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

CONSUMPTION AT 25 MM

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

CONSUMPTION AT 40 MM

Densit® WearFlex 500	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

SPECIFICATION

- 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.

DENSIT® WEARFLEX 500

CHEMICALLY BONDED QUARTZ-CERAMIC

TECHNICAL DATA

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	2.5-3.0
Erosive resistance - min/cm ³		55
Chemical composition -	EN 196-10	
% CaO		18
% SiO ₂		80
% Al ₂ O ₃ + TiO ₂		1
% Fe ₂ O ₃		<0.2
% Cr ⁶⁺		<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



The figures given are typical values.
Please contact ITW Engineered Polymers or the nearest distributor for further information.