



TECHNICAL DATA SHEET – DENSIT® WEARFLEX 500 CHEMICALLY BONDED QUARTZ-CERAMIC

Revised: 10/2019

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
Densit® Wear 500 Sand	32.5 kg/m ²
Densit® Anchoring mesh	1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²

CONSUMPTION AT 40 MM

Densit® WearFlex 500	45 kg/m ²
Densit® Wear 500 Sand	49 kg/m ²
Densit® Anchoring mesh	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 Densit® 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. The guaranteed shelf life is 14 months from production date. 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

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	5 - 6
Erosive resistance - min/cm ³		55
Chemical composition - % CaO % SiO ₂ % Al ₂ O ₃ + TiO ₂ % Fe ₂ O ₃ % Cr ⁶⁺	EN 196-10	18 80 1 <0.2 <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 Performance Polymers or the nearest distributor for further information.