



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

Revised: 10/2019

DESCRIPTION

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

CONSUMPTION AT 25 MM

Densit® WearSpray 500 Binder	29 kg/m ²
Ducorit® Spraying Sand 1000	29 kg/m ²
Densit® WearSpray fibres	58 g/m ²
Densit® Anchoring mesh	1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²

CONSUMPTION AT 40 MM

Densit® WearSpray 500 Binder	46 kg/m ²
Ducorit® Spraying Sand 1000	46 kg/m ²
Densit® WearSpray fibres	92 g/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® WearSpray 500 Binder and one bag Ducorit® Spraying Sand 1000 with fibres for 1 minute
- Add water and mix for 5-10 minutes
- Convey material through recommended pump
- Spray mixed material onto mesh
- Smooth the surface if required
- Apply Densit® Curing Compound
- For more details refer to the “Densit® WearSpray Video”

Densit® WearSpray 500 is a sprayable 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® WearSpray 500 should be installed on a standard stretch metal mesh welded on the steel casing and can even be installed “over head”.

TECHNICAL DATA

PROPERTIES	STANDARD	DENSIT® WEARSPRAY 500
Density - kg/m ³ (lb/ft ³)	EN 1015-6	2270 (142)
Compressive strength - MPa	EN 12190	100
Flexural strength - MPa	EN 196-1	15
Dynamic E-modul - MPa	EN	70-75 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	15
	% SiO ₂	82
	% Al ₂ O ₃ + TiO ₂	1
	% Fe ₂ O ₃	<0.2
	% Cr ⁶⁺	<0.0002
Bag size Densit® Wear Spray 500 Binder - kg		25
Bag size Ducorit® Spraying Sand 1000 -		25
Pallet size Densit® Wear Spray 500 Binder - kg		1250
Pallet size Ducorit® Spraying Sand 1000 - kg		1250

The figures given are typical values.

Please contact ITW Performance Polymers or the nearest distributor for further information.