



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

Revised: 04/2019

### 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 <sup>2</sup>
Ducorit® Spraying Sand 1000	29 kg/m <sup>2</sup>
Densit® WearSpray fibres	58 g/m <sup>2</sup>
Densit® Anchoring mesh	1.1 m <sup>2</sup> /m <sup>2</sup>
Densit® Curing Compound	0.25 l/m <sup>2</sup>

### CONSUMPTION AT 40 MM

Densit® WearSpray 500 Binder	46 kg/m <sup>2</sup>
Ducorit® Spraying Sand 1000	46 kg/m <sup>2</sup>
Densit® WearSpray fibres	92 g/m <sup>2</sup>
Densit® Anchoring mesh	1.1 m <sup>2</sup> /m <sup>2</sup>
Densit® Curing Compound	0.25 l/m <sup>2</sup>

### SPECIFICATION

- Install mesh
- Mix one bag Densit® WearSpray 500 Binder and one bag Ducorit® Spraying Sand 1000 for 1 minute
- Mix dry compound with water and fibres
- 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 <sup>3</sup> (lb/ft <sup>3</sup> )	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 <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	5 - 6
Erosive resistance - min/cm <sup>3</sup>		55
Chemical composition -	EN 196-10	% CaO 15 % SiO <sub>2</sub> 82 % Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub> 1 % Fe <sub>2</sub> O <sub>3</sub> <0.2 % Cr <sup>6+</sup> <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.*