



TECHNICAL DATA SHEET – DENSIT® WEARSPRAY 500

Revised: 11/2016

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 | 1.1 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 | 1.1 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 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. 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”.

DENSIT® WEARSPRAY 500

CHEMICALLY BONDED QUARTZ-CERAMIC

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 | 2.5-3.5 |
| 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 Engineered Polymers or the nearest distributor for further information.