



## TECHNICAL DATA SHEET – DENSIT® WEARFLEX 500

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### 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 <sup>2</sup>               |
| Wear 500 sand               | 32.5 kg/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® WearFlex 500    | 45 kg/m <sup>2</sup>               |
| Wear 500 sand           | 49 kg/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® 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 <sup>3</sup> (lb/ft <sup>3</sup> )  | 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 <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 | 2.5-3.0                                     |
| Erosive resistance - min/cm <sup>3</sup>   |           | 55  |
| Chemical composition -<br>% CaO<br>% SiO <sub>2</sub><br>% Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub><br>% Fe <sub>2</sub> O <sub>3</sub><br>% Cr <sup>6+</sup> | EN 196-10 | 18<br>80<br>1<br><0.2<br><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.