



## TECHNICAL DATA SHEET – DENSIT® WEARFLEX 2000 HT CHEMICALLY BONDED CORUNDUM-CERAMIC

Revised: 04/2019

### DESCRIPTION

Densit® WearFlex 2000 HT wear resistant linings provide superior protection against heavy erosive wear at temperatures up to 1200°C (2190°F).

### CONSUMPTION AT 25 MM

Densit® WearFlex 2000 HT	71 kg/m <sup>2</sup>
Steel fibres *	3.2 kg/m <sup>2</sup>
Densit® Anchoring mesh	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 2000 HT	113 kg/m <sup>2</sup>
Steel fibres*	5.1 kg/m <sup>2</sup>
Densit® Anchoring mesh	1 m <sup>2</sup> /m <sup>2</sup>
Densit® Curing Compound	0.25 l/m <sup>2</sup>

\* Steel fibre selection depends on temperature and chemical environment.  
See the data sheet for steel fibres

### SPECIFICATION

- Install mesh
- Mix dry compound for 1 minute
- Add water and mix for 6 minutes
- Add appropriate steel fibres\* and mix another 3 minutes
- Trowel mix onto mesh
- Apply Densit® Curing Compound
- For more details refer to the “Densit® WearFlex Manual”

Densit® WearFlex 2000 HT is a trowellable one-component ready-mix delivered in 25 kg bags.

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 2000 HT should be installed on a standard expanded metal mesh welded on the steel casing and can even be installed “over head”.

**TECHNICAL DATA**

PROPERTIES	STANDARD	DENSIT® WEARFLEX 2000 HT	
Density - kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	EN 1015-6	2900 (181)	
Compressive strength - MPa	EN 12190	133	
Flexural strength - MPa	EN 196-1	15	
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	6.9x10 <sup>-6</sup> (3.8x10 <sup>-6</sup> )	
Heat capacity - KJ/kg°C		0.9-1.0	
Max. service temperature - °C (°F)		1200 (2190)	
Shrinkage after firing at 500°C - %		0.1	
Shrinkage after firing at 800°C - %		0.3	
Shrinkage after firing at 1200°C - %		0.3	
Abrasion resistance - cm <sup>3</sup> /50cm <sup>2</sup>	DIN 52108	0.8-1.0	
Erosive resistance - min/cm <sup>3</sup>		150	
Chemical composition -	EN 196-10	% CaO	4-8
		% SiO <sub>2</sub>	4-8
		% Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>	70-90
		% Fe <sub>2</sub> O <sub>3</sub>	<0.2
		% Cr <sup>6+</sup>	<0.0002
Bag size - kg		25	
Bag size - kg		1250	

*The figures given are typical values.*

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