



## TECHNICAL DATA SHEET – DENSIT® WEARFLEX 1000

Revised: 11/2016

### DESCRIPTION

Densit® WearFlex 1000 wear resistant linings provide excellent protection against high erosive wear at temperatures up to 400°C (750°F).

### CONSUMPTION AT 25 MM

Densit® WearFlex 1000	65 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 1000	104 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>

### SPECIFICATION

- Install mesh
- Mix dry compound 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 1000 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. 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 1000 should be installed on a standard expanded metal mesh welded on the steel casing.

**DENSIT® WEARFLEX 1000**  
CHEMICALLY BONDED BAUXITE-CERAMIC

### TECHNICAL DATA

PROPERTIES	STANDARD	DENSIT® WEARFLEX 1000
Density kg/m <sup>3</sup> - (lb/ft <sup>3</sup> )	EN 1015-6	2650 (165)
Compressive strength - MPa	EN 12190	200
Flexural strength - MPa	EN 196-1	25
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	1.5-2.0
Erosive resistance - min/cm <sup>3</sup>		85
Chemical composition -	% CaO	20
	% SiO <sub>2</sub>	30
	% Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>	48
	% Fe <sub>2</sub> O <sub>3</sub>	<0.7
	% Cr <sup>6+</sup>	<0.0002
Bag size - kg		25
Pallet size - kg		1250



The figures given are typical values.  
Please contact ITW Engineered Polymers or the nearest distributor for further information.