Data sheet

Densit® WearFlex 2000 HT

- Chemically bonded Corundum-Ceramic

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/m²
Steel fibres *)	3.2 kg/m²
Densit® Anchoring mesh	1 m²/m²
Densit® Curing Compound	0.25 l/m²
Consumption at 40 mm	
Densit® WearFlex 2000 HT	113 kg/m²
Steel fibres *)	5.1 kg/m²
Densit® Anchoring mesh	1 m²/m²
Densit® Curing Compound	0.25 l/m²

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

DENSIT® WEARFLEX 2000 HT

- 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.

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/m³ (lb/ft³)	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 10^3
Casting shrinkage	vol. %		0.2
Thermal conductivity	w/m°C		1.5
Coeff. of thermal expansion	1/°C (1/°F)	EN 1770	$6.9x10^{-6}$ ($3.8x10^{-6}$)
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	cm³/50cm²	DIN 52108	0.5-1.0
Erosive resistance	min/cm³		140
Chemical composition	% CaO % SiO_2 % $Al_2O_3 + TiO_2$ % Fe_2O_3 % Cr^{6+}	EN 196-10	6 6 86 <0.3 <0.0002
Bag size	kg		25
Pallet size	kg		1250

The figures given are typical values.

Please contact ITW Densit or the nearest distributor for further information.

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