



TECHNICAL DATA SHEET – DENSIT® WEARFLEX 3000

Revised: 11/2016

DESCRIPTION

Densit® WearFlex 3000 wear resistant linings provide superior protection against heavy erosive wear at temperatures up to 400°C (750°F).

CONSUMPTION AT 25 MM

Densit® WearFlex 3000	62 kg/m ²
Densit® Anchoring mesh	1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²

CONSUMPTION AT 40 MM

Densit® WearFlex 3000	99 kg/m ²
Densit® Anchoring mesh	1 m ² /m ²
Densit® Curing Compound	0.25 l/m ²

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 3000 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 3000 should be installed on a standard expanded metal mesh welded on the steel casing.

DENSIT® WEARFLEX 3000
CHEMICALLY BONDED SILICON-CARBIDE-CERAMIC

TECHNICAL DATA

PROPERTIES	STANDARD	DENSIT [®] WEARFLEX 3000
Density kg/m ³ - (lb/ft ³)	EN 1015-6	2575 (161)
Compressive strength - MPa	EN 12190	130
Flexural strength - MPa	EN 196-1	20
Dynamic E-modul - MPa	EN	70-80 10 ³
Casting shrinkage - vol.%		0.2
Thermal conductivity - w/m°C		5.0
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	0.5-1.0
Erosive resistance - min/cm ³		280
Chemical composition -	% CaO	17
	% SiO ₂	14
	% SiC	59
	% Al ₂ O ₃ + TiO ₂	7
	% Fe ₂ O ₃	<0.6
% Cr ⁶⁺	EN 196-10	<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.