



TECHNICAL DATA SHEET – DENSIT® WEARFLEX 3000 CHEMICALLY BONDED SILICON-CARBIDE-CERAMIC

Revised: 04/2019

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

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 -	EN 196-10	
% CaO		17
% SiO ₂		14
% SiC		59
% Al ₂ O ₃ + TiO ₂		7
% Fe ₂ O ₃		<0.6
% Cr ⁶⁺		<0.0002
Bag size - kg		25
Pallet size - kg		1250

The figures given are typical values.

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