

# Densit

# WearFlex 1000HT™

*High-Temp!*

Chemically Bonded Bauxite-Ceramic



## Features & Benefits

Wear-Con Densit® WearFlex 1000HT™ High-Temp Chemically Bonded Bauxite-Ceramic wear resistant lining is a trowellable, one-component ready-mix wear compound combined with wear-resistant aggregates to provide a tough and long-lasting wear solution in extreme heat situations. WearFlex 1000HT™ is applied directly to an anchoring mesh in thicknesses from ¼” to 2”, providing seamless graduation in lining thicknesses on almost any shape without vulnerable joints. Fast and easy to install, even overhead, WearFlex 1000HT™ can be used after just 24 hours.

## Installation

Wear-Con Densit® WearFlex 1000HT™ can be installed in five simple steps:

1. Install mesh. WearFlex 1000HT™ should be installed on a standard expanded metal mesh welded on the steel casing.
2. Mix dry WearFlex 1000HT™ compound for 1 minute with a paddle mixer. Product must be kept completely dry until used.
3. Add water and mix for 8 minutes with a paddle mixer. A significant change in consistency of the material (from a dry powder to wet mortar) must be observed within 3 minutes from addition of water.
4. Trowel WearFlex 1000HT™ onto mesh. Avoid making contact with aluminum or galvanized steel when using WearFlex 1000HT™.
5. Apply Densit® Curing Compound.

For more details refer to the “Densit® WearFlex™ Manual”.

## Technical Specifications

Wear-Con Densit® WearFlex 1000HT™ is a high-strength wear compound combined with bauxite aggregates to provide excellent protection against severe erosive wear in extreme temperatures up to 2190°F (see reverse for more technical data).

## Sizes

Wear-Con Densit® WearFlex 1000HT™ is delivered in 55 lb bags.

*(See reverse for more technical data.)*

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| Technical Data              |   |           |  |
|-----------------------------|---|-----------|--|
| Properties                  |   | Standard  | Densit® WearFlex 1000HT™                     |
| Density                     | kg/m <sup>3</sup> (lb/ft <sup>3</sup> )           | EN 1015-6 | 2800 (175)                                   |
| Compressive Strength        | MPa   | EN 12190  | 130  |
| Flexural Strength           | MPa   | EN 196-1  | 22   |
| 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 Temp.          | °C (°F)   | -         | 1200 (2190)                                  |
| Shrinkage After Firing      | at 500°C (932°F)                                  |           | 0.1%   |
|                             | at 800°C (1472°F)                                 | -         | 0.3%   |
|                             | at 1200°C (2192°F)                                |           | 0.3%   |
| Abrasion Resistance         | cm <sup>3</sup> /50cm <sup>2</sup>                | DIN 52108 | 2.0 - 3.0                                    |
| Erosive Resistance          | min/cm <sup>3</sup>                               | -         | 70   |
| Chemical Composition        | CaO   |           | 7%   |
|                             | SiO <sub>2</sub>                                  |           | 7%   |
|                             | Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub> | EN 196-10 | 83%  |
|                             | Fe <sub>2</sub> O <sub>3</sub>                    |           | <0.8%  |
|                             | Cr <sup>6+</sup>                                  |           | <0.0002%                                     |
| Bag Size                    | kg (lb)   | -         | 25 (55)                                      |
| Pallet Size                 | kg (lb)   | -         | 1250 (2755)                                  |

| Consumption              |                                  |
|--------------------------|----------------------------------|
| at 25 mm                 |                                  |
| Densit® WearFlex 1000HT™ | 68 kg/m <sup>2</sup>             |
| Steel Fibers*            | 3.1 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>            |

| Consumption              |                                  |
|--------------------------|----------------------------------|
| at 40 mm                 |                                  |
| Densit® WearFlex 1000HT™ | 109 kg/m <sup>2</sup>            |
| Steel Fibers*            | 4.9 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 fiber selection depends on temperature and chemical environment. See steel fiber data sheet.

(See reverse for more information.)



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