## **Product Data Sheet**

Reference PDS-REFPAC 100-RE-EN-KFR-032015

# **REFPAC™** 100 Refractory Applications

Fluidifier for silica fume containing castables

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#### General Characteristics

**REFPAC™** 100 is a multicomponent active compound design to be used in conjunction with calcium-aluminate cements in refractory applications. This new generation of fluidifying agent was specifically developed for low to medium cement products containing 2-10% Silica fume.

**REFPAC™** 100 provides characteristics ideally suited for refractory applications where reliable performance is required across a range of refractory aggregates and where inherent raw material variations cause issues with traditional additive systems.

**REFPAC™100** ensures optimal installation characteristics and maximises castable performance in situ

**REFPAC™** 100 has been tested in model castable systems up to 1500°C and displays no detrimental effects to castable performance and did not alter the fired physical properties of the castable system in comparison to standard additive systems.

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#### Compatibility

**REFPAC™** 100 is used in place of the normal additive package used for dispersing silica fume based castables and is compatible with all standard accelerator and retarders used for refractory applications.

The use of REFPAC™100 is recommended for medium and low cement applications and when matched with the correct rheologically optimised size distributions is suitable for vibration, self-flowing and pumping grade materials.

Laboratory trials are recommended prior to any industrial use.

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#### **Specifications**

Appearance: Fine Powder
Colour: Off-White
Odour: None

Specific Gravity: 2.70 – 2.80 g/cm<sup>3</sup> Bulk Density: 1.05 – 1.15 g/cm<sup>3</sup>

Typical Chemical Analysis

 $Al_2O_3$  58 - 65% CaO 25 - 30%  $SiO_2$  < 0.5%  $K_2O + Na_2O$  <1.0% LOI 7 - 13%

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#### Dosage

The recommended dosage of **REFPAC™** 100 is 1.0% by weight of castable. It is recommended to replace all other dispersants & additives as well as the balance of 1% of the matrix.

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## Packaging & Storage

- Shelf Life: 12 months at 5-35°C in un-opened buckets or paper-sacks on shrink-wrapped pallets
- The product may absorb moisture if stored in high humidity environments
- Open bags should be resealed and used in a relatively short period of time.

Kerneos reserve the right to modify the product characteristics as a function of manufacturing experience.

Kerneos warrants that the product complies with the specifications stated herein to the exclusion of any other warranty, express or implied. Kerneos makes no representation or warranty of any kind, either expressed or implied, as to the suitability or fitness for a particular purpose or use of the product. The warranty shall be limited to the replacement of the non-conforming products or, at Kerneos option, the refund of the purchase price. Any technical advice, recommendations or information are given based on Kerneos current knowledge and experience of the products and are deemed to be accurate. However, Kerneos undertakes no liability or responsibility of any kind with respect thereof sers are invited to check that they have the latest version of this document.

