

19603 Tilcor Road, Chitungwiza Industrial Site.

Tel: 02421 25803, Cell: +263 77 281 3000

[www.refractoryanddesign.co.zw](http://www.refractoryanddesign.co.zw)

[info@refractoryanddesign.co.zw](mailto:info@refractoryanddesign.co.zw)

## Ref-cast 1400 LC

### Description

Ref-cast 1400LC is a high quality performance product characterised by a low amount of cement and a cement hydraulic chemical set.

Ref-cast 1400LC castable is suitable for general purposes, furnaces, boilers, power stations etc. This is a high strength refractory material specifically suitable for insulation, high temperature environments etc.

The rheological properties of the castable are well adapted for the vibration casting method.

Ref-cast 1600LCx castable is produced and tested with respect to quality and purity in a contamination free environment under certified quality management systems.

### Specifications

Maximum Service Temperature : 1400°C

Bulk Density (g/cm<sup>3</sup>): 2.2

Cold Crushing Strength (Mpa): 40

Maximum Particle Size: 5mm

Thermal Expansion (%) 20-1000°C: 0.60

Thermal Conductivity (W/mK) 500°C: 0.8

### Application

Ref-cast 1400LC is a low cement hydraulic/ chemical bonding material with a setting time ranging from 4-8 hours.

### Chemical Composition

	wt%
Al <sub>2</sub> O <sub>3</sub>	41
SiO <sub>2</sub>	43.8
Fe <sub>2</sub> O <sub>3</sub>	1.5

### Workability

Ref-cast 1400LC is characterized by a maximum particle size of 5mm diameter. A maximum water addition of 15 wt% would ensure plasticity retention, reduced bleeding, and reduced setting times.

### Other physical properties

Shelf Life (months) 6

Application cast

Storage: Keep dry

**NB:** Best results are obtained when the product is installed correctly as per product data sheet specifications.