

## Data Sheet

Revision 0: 2025.06.03

### Keratuff 2

Keratuff 2 is a structural insulating refractory. Insulation materials are normally only usable as a backing or with some kind of structural support. Keratuff 2 has sufficient strength to be a free standing structure. It has low permeability and is easily machined or cut when dried or fired.

#### Composition:

Contains Cenolite and synthetic aggregates, and zirconia containing ceramic fibres.

#### Physical Properties:

<b>Colour:</b>	Grey when wet and yellow when fired at 1200°C
<b>Maximum Service Temperature:</b>	1220°C
<b>Maximum Particle Size:</b>	-2 mm
<b>C.C.S (110°C):</b>	6MPa
<b>C.C.S (after firing at 1200°C):</b>	6MPa
<b>Dry Bulk Density:</b>	0.80 g/cm <sup>3</sup>
<b>Permanent Linear Change (1200°C):</b>	-1.9%
<b>Thermal Conductivity:</b>	0,20 W/mK @ 200°C 0,20 W/mK @ 400°C 0,23 W/mK @ 600°C 0,28 W/mK @ 800°C

#### Applications:

- Electric kiln walls and element holders
- Crucible furnace lids
- Heat shields
- Masonry protection in charcoal ovens
- Aluminium launders
- Burner shields
- Machined components

#### Installation:

Add +40 to +50% water to the powder, mix well and apply it.  
It can be vibration cast at +40% water, +50% is easier to apply by trowelling.  
Water content is not critical and need not be measured.  
Extensive mixing and trowelling improves the fibre dispersion and improves strength.

#### Setting time / Heat of Hydration:

Between 1-2 hours depending on weather conditions

#### Shelf life and Packaging:

About 18 months  
10 kg Plastic Bags

#### Additional Notes:

Wear dust mask when machining.

Developed by: Dave Onderstall