

## Data Sheet

Revision 3: 2025.06.27

### Fine Cast

Fine Cast is a self-flowing, self-levelling and de-airing aluminosilicate material.

#### Chemical analysis (%)

Al <sub>2</sub> O <sub>3</sub>	45.29
SiO <sub>2</sub>	42.60
CaO	8.20
Fe <sub>2</sub> O <sub>3</sub>	1.33
TiO <sub>2</sub>	1.27
MgO	0.46
K <sub>2</sub> O	0.25
Na <sub>2</sub> O	0.21
P <sub>2</sub> O <sub>5</sub>	0.11
LOI	0.17

#### Physical Properties:

Maximum particle size:	1 mm
Density (Wet):	2.18 g/cm <sup>3</sup>
Density (110 °C):	2.01 g/cm <sup>3</sup>
Density (1250 °C):	1.94 g/cm <sup>3</sup>
Apparent Porosity:	~24%
Maximum service temperature:	1250 ° C
Permanent Liner Change:	4-5% shrinkage fired at 1250° C for 5 hours.

#### Preparation:

Mix with between +13% and +16% water.  
Water content varies depending on the method of mixing.

#### Mixing:

Mixing is complete when the mix is completely wet and should be self-flowing.

#### Setting time / Heat of hydration:

Between 2 – 3 hours depending on weather conditions.

#### Shelf life:

About 18 months

#### Packaging:

20kg plastic bags. Stretch wrapped on pallets of 1 ton.