

FIBERFRAX® COATING CEMENTS

Fiberfrax QF150 and QF180 have been specially formulated to provide air setting refractory coatings or bonding agents that are resistant to flame and hot gas erosion. Fiberfrax Coating Cements form a hard insulation surface with excellent chemical resistance that is not wetted by most non-ferrous molten metals. Excellent thermal reflectance and dielectric strength properties also enable these cements to be used for a wide range of applications, particularly with other Fiberfrax and Insulfrax™ product forms.

General Characteristics

Fiberfrax Coating Cements have the following benefits:

- Excellent erosion and chemical resistance
- Resistant to wetting by most non-ferrous molten metals.
- Excellent thermal reflectance and dielectric strength properties
- Available in trowelling consistency (QF150) or brushing/spraying consistency (QF180)

Chemical Analysis (wt.%)

	QF150	QF180
Al ₂ O ₃	38.6%	37.2%
SiO ₂	57.5%	59.1%
Na ₂ O	0.7%	0.7%
MgO	0.3%	0.3%
Fe ₂ O ₃	0.7%	0.7%
TiO ₂	1.5%	1.4%
Trace Inorganics	0.6%	0.6%

Thermal Conductivity Data (W/mK)

Mean Temp	QF150	QF180
200°C	0.34	0.34
400°C	0.36	0.36
600°C	0.39	0.39
800°C	0.42	0.42
1000°C	0.57	0.57

*The continuous Use Limit of Fiberfrax insulation is determined by irreversible linear change criteria, not product melting point.



Availability

- QF150 is available in 4 and 20 litre pails
- QF180 is available in 1, 4 and 20 litre pails

Typical Physical Properties

	QF150	QF180
Appearance	White Paste	Green paint
Continuous Use Temperature	1260°C	1260°C
Specific Gravity	1.7	1.8
Normal Layer Thickness	1.52mm	0.25mm
Coverage - 1 layer	0.5 m ² /tr	1-2 m ² /tr
Normal Shelf Life	>1year	>1year
Linear Shrinkage *		
1000°C	2.1%	2.1%
1260°C	3.2%	3.2%
Mean Coefficient of Expansion 0-1260°C	5.4 x 10 ⁻³ cm/cm°C	
Specific Heat 1093°C	1130 J/kg °C	
Dielectric Strength	1535 volts/mm	

* 24 hr soaking heat condition