

FIBERFRAX® PUMPABLE

Fiberfrax Pumpable is a versatile insulating putty-like material, which can be pumped easily and quickly into hot spots in furnace casings, door jambs, expansion joints or areas difficult to access by other techniques.

Fiberfrax Pumpable has been designed to be applied using conventional pumping systems into voids or cracks, even while the furnace is still operating. Air drying results in a strong, lightweight structure with excellent insulation properties. Fiberfrax Pumpable is suitable for a wide range of applications, particularly in furnace casing or refractory lining repairs.

General Characteristics

Fiberfrax Pumpable has the following outstanding properties:

- Low thermal conductivity
- Low heat storage
- Light weight
- Thermal shock resistance
- Good sound absorption
- Excellent corrosion resistance
- High temperature stability

Installation and Drying Schedule

Fiberfrax Pumpable can be pumped, trowelled or applied by hand.

Drying involves removal of water from the wet material. Air-drying is a slow process even under ideal conditions. Since the drying cycle is not critical, firing or heat up of the furnace will remove the water quickly. Some ventilation is required to permit the escape of steam.

Availability

- Pumpable is available in 2 kg plastic sleeves, 4 kg and 20 kg containers.
- Pneumatic caulking guns to suit 2 kg sleeves are available.



Physical Properties

Material	Pumpable	Pumpable 1400
Colour	Off white	Off white
Continuous Use Limit	1260°C	1400°C
Wet Density	1200 kg/m ³	1200 kg/m ³
Dry Density	400 kg/m ³	400 kg/m ³
Melting Point	1760°C	1740°C
Fibre Diameter	2-3 microns	2-3 microns
Specific Heat	1130 J/kgK	1130 J/kgK
Linear Shrinkage (24hrs 1093°C)	6%	4%

Typical Applications

- Hot or cold patch repairs of boiler insulation.
- Hot or cold patch repair of refractory backup insulation.
- Furnace door frame and jamb seals
- Insulation of furnace penetrations (e.g. tube hanger and thermocouples).
- Hot or cold repair of heat leaks around burner blocks and sight windows.
- Caulking of refractory cracks and expansion joints.

Data are average results conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.