DESCRIPTION
Fiberfrax Mastics are insulation materials which are composed of Fiberfrax refractory ceramic fibres dispersed in high temperature binders, which upon drying produce a strong insulating structure with low thermal conductivity. Fiberfrax Mouldable 160 contains both RCF and polycrystalline fibres, and High Temperature Mouldable contains only polycrystalline fibres.

These versatile products can be caulked, trowelled and/or moulded quickly and easily into place for use in filling, sealing, repair and general packing applications.

GENERAL CHARACTERISTICS
Fiberfrax & High Temperature Mastics have the following outstanding characteristics:
- Low thermal conductivity
- Resistance to thermal shock
- Excellent vibration resistance
- Resistance to erosion
- Low shrinkage
- Good adhesion

TYPICAL APPLICATIONS
- Filling of cracks in refractory lining & expansion joints
- Casing “hot spot” repairs (refractory or fibre lined equipment)
- Furnace door/jamb seals
- Sealing of gaps including windows & flue elements
- Trough linings/coatings for non-ferrous metals

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.
TYPICAL PRODUCT PARAMETERS

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>Fiberfrax</th>
<th>PUMP 140</th>
<th>MOULD 120</th>
<th>MOULD 160</th>
<th>High Temp MOULD 175</th>
<th>MOULD 120HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>White</td>
<td>White</td>
<td>White</td>
<td>White</td>
<td>White</td>
<td>Brown</td>
</tr>
<tr>
<td>Product Form</td>
<td>Putty</td>
<td>Sticky putty</td>
<td>Pasty mastic</td>
<td>Pasty mastic</td>
<td>Malleable block</td>
<td></td>
</tr>
<tr>
<td>Use Limit (°C)</td>
<td>1400</td>
<td>1200</td>
<td>1600</td>
<td>1750</td>
<td>1200</td>
<td></td>
</tr>
<tr>
<td>Wet Density (kg/m³)</td>
<td>1050</td>
<td>1200</td>
<td>1600</td>
<td>1750</td>
<td>1200</td>
<td></td>
</tr>
<tr>
<td>Dry Density (kg/m³)</td>
<td>300-350</td>
<td>640</td>
<td>1100</td>
<td>1100</td>
<td>900</td>
<td></td>
</tr>
</tbody>
</table>

Thermal Conductivity (W/mK)

Mean Temp.
- 600 °C 0.09 0.21 0.28 0.09
- 800 °C 0.13 0.25 0.32 0.13
- 1000 °C 0.19 0.31 0.43 0.19
- 1200 °C 0.52 0.50 0.50
- 1400 °C 0.68

Permanent Linear Shrinkage (%) 24 hour soak
- 1100 °C 2.0 2.0
- 1200°C <5.0
- 1400°C <5.0

INSTALLATION & DRYING PROCEDURES

Installation
Fiberfrax Pumpable 140 is easily installed using a trowel, spatula, applicator gun or Fraxpump.
Fiberfrax Mouldable 120 may be installed using a trowel or a gun applicator.
Fiberfrax Mouldable 160 & HT Mouldable 175 are quite stiff mastics and ideally installed using a trowel.
These mastics may be installed using a high torque applicator gun, if necessary.
Fiberfrax 120HD Mastic is in the form of a malleable block can be moulded and installed by hand.

Drying
Fiberfrax Mastics can be dried at room temperature but this requires an extended period of time. Therefore forced air heating at 100°C is recommended. Rapid firing to operating temperature is not recommended. During the first firing, some initial out-gassing can be expected at elevated temperatures. Ventilation is sometimes required to permit escape of steam.

AVAILABILITY

<table>
<thead>
<tr>
<th>Fiberfrax</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>300g Cartridge</td>
<td>✔</td>
<td></td>
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<tr>
<td>420g Cartridge</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600ml Sachet</td>
<td>✔</td>
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</tr>
<tr>
<td>5kg Pail</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
</tr>
<tr>
<td>20kg Pail</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>25kg Pail</td>
<td>✔</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>19kg (3x5kg) Blocks</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
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</table>

HANDLING INFORMATION

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

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