



## DESCRIPTION

Isofrax Mastics are insulation materials composed of Isofrax alkaline earth silicate wool dispersed in high temperature binders, which upon drying produce a strong insulating structure with low thermal conductivity. These versatile products can be caulked, trowelled, pumped or moulded quickly and easily into place for use in filling, sealing, repair and general packing applications.

## GENERAL CHARACTERISTICS

Isofrax Mastics have the following outstanding characteristics:

- Low thermal conductivity
- Resistance to thermal shock
- Low shrinkage
- Good adhesion
- Ease of installation

## TYPICAL APPLICATIONS

- Caulking of refractory cracks & expansion joints
- Casing "hot spot" repairs (refractory or fibre lined equipment)
- Moulding of small components
- Gap filling in fibre module linings

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.

*Start saving energy now.  
Contact your local distributor.*

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## TYPICAL PRODUCT PARAMETERS

| Isofrax                            | Pumpable 120 | Mouldable 120 | Mouldable LDS |
|------------------------------------|--------------|---------------|---------------|
| <b>Physical Properties</b>         |              |               |               |
| Colour                             | White        | White         | White         |
| Product Form                       | Putty        | Putty         | Sticky putty  |
| Use Limit (°C) *                   | 1200         | 1200          | 1200          |
| Wet Density (kg/m <sup>3</sup> )   | 1090         | 1140          | 1140          |
| Dry Density (kg/m <sup>3</sup> )   | 270          | 340           | 340           |
| <b>Thermal Conductivity (W/mK)</b> |              |               |               |
| <b>Mean Temp.</b>                  |              |               |               |
| 600 °C                             | 0.09         | 0.21          | 0.21          |
| 800 °C                             | 0.13         | 0.25          | 0.25          |
| 1000 °C                            | 0.19         | 0.31          | 0.31          |

\*The maximum continuous use limit temperature for these products depends upon operating and application conditions. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office. Where appropriate Physical Properties data measured according to EN 1094-1.

## INSTALLATION & DRYING PROCEDURES

### Installation

Isofrax Pumpable Mastic can be easily installed by using approved equipment. Details of recommended pump units, applicator tools and caulking guns are available upon request from your nearest Unifrax office. Isofrax Mouldable Mastics can be easily installed using a trowel or spatula.

### Drying

Isofrax Mastics can be dried at room temperature but this requires an extended period of time. Therefore forced air heating at 100°C is recommended. Firing or heat up of the equipment or furnace will allow for quicker removal of moisture from the material. During the first firing, some initial out-gassing can be expected at elevated temperatures. Ventilation is required to permit escape of steam.

## AVAILABILITY

| Isofrax        | Pump 120 | Mould 120 | Mould LDS | Application Method  |
|----------------|----------|-----------|-----------|---|
| 300g Cartridge | ✓        | ✓         |           | Seal & fill gaps  |
| 600ml Sachet   | ✓        | ✓         |           | Seal & fill gaps  |
| 5kg Pail       | ✓        | ✓         | ✓         | Trowel  |
| 20kg Pail      | ✓        | ✓         |           | PUMP 120 may be installed into voids using Fraxpump. MOULD installed by hand or trowel. |

### Shelf Life & Storage

Isofrax Mastics can be stored for up to 6 months, based on unopened container kept in cool dry storage conditions. Storage between 5 and 20°C is recommended. (Excessive heat will shorten the shelf life and freezing will result in irreversible damage to the product.)

## 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.

Supplied by: