

## FIBERFRAX® LDS MOLDABLE

Fiberfrax LDS Moldable is a versatile insulation product used as cast shapes, coatings, linings and for general refractory repairs.

It consists of Fiberfrax ceramic fibers dispersed in a very sticky water based refractory silica binder requiring only drying to produce a hard surfaced, low thermal conductivity insulation. The tackiness provides good wet adhesion of the Fiberfrax LDS Moldable to the applied surface during drying, thereby assuring a good refractory bond.



### General Characteristics

Fiberfrax LDS Moldable has the following benefits:

- Excellent thermal insulation
- Low shrinkage
- Excellent adhesion to metal and refractory surfaces
- Air sets to a hard surface

### Typical Applications

- Hot and cold patching of refractory cracks and fissures
- Trough linings for aluminium and other non-ferrous metals
- Coating for metal liners
- Turbine and exhaust insulation
- Patching around burner blocks
- Metal and spot welding
- Brazing and spot welding protection
- Refractory anchor insulation

### Availability

- Fiberfrax LDS Moldable is available in 1, 4 and 20kg drums
- 2kg sleeves are also available for pneumatic caulking gun applications

### Installation and Drying Schedule

Fiberfrax LDS Moldable may be installed with plastic gloves, trowels, spatulas or caulking gun. It is easily smoothed to the desired contour by water wetting the forming tool and molding to shape. Drying involves removal of the internal water. If the mass of Fiberfrax LDS Moldable is small (less than ½kg, up to 13mm thick) it can be immediately fired to its use temperature without damage or directly applied to a hot surface or fissure if desired.

For larger masses, the recommended practice is forced drying at 90-150°C with a major uncovered surface exposed and adequate ventilation provided. Generally, overnight drying is sufficient for thickness of 25-50mm.

### Physical Properties

|   |                      |
|---|----------------------|
| Colour                                  | White                |
| Classification Temperature              | 1260°C               |
| Percent Solids                          | 55%                  |
| Dried Density                           | 640kg/m <sup>3</sup> |
| Hot gas Erosion Resistance              | >60m/sec             |
| Linear Shrinkage *:                     |                      |
| 1093°C                                  | 2%                   |
| 1260°C                                  | 6%                   |
| Normal Shelf Life (unopened containers) | > 12 months          |

\*24hr Soaking heat conditions

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