



## DATA SHEET

### Fortafix High Temperature Adhesives

#### **FORTAFIX ADHESIVE FIRE CEMENT - FIREBRAND**

- Water based pliable adhesive fire cement.
- Strong adhesion at all temperatures up to 1600°C.
- Designed for use in the assembly and instillation of gas/multi-fuel heating appliances.
- Does not exude oil or stain most absorbent materials.
- Odourless and non-toxic.
- A maximum continuous operating temperature of up to 1600°C.
- Available in easy to use cartridge

#### **Typically Used For**

- Cement – High temperature cement for instillation of fireplaces and hearths.
- Sealant – High temperature rigid seals for joints on flues, stoves and other heating devices.

#### **Principal Characteristics**

- Suitable for Bonding and thick sections.
- Maximum Continuous Service Temperature: up to 1600°C.
- Available as neutral brown or black putty - Ready to use.
- Sets to form hard and rigid ceramic mass which is resistant to thermal shock and age.

<b>Melting Temperature</b>	1600°C	<b>Expansion</b>		<b>pH</b>	13
<b>Oxidation Resistance</b>	Excellent	<b>Acid Resistance</b>	Excellent – Except hydrofluoric	<b>Packaging</b>	300ml cartridge, 0.5, 1, 2, 10 & 25kg

## Health and Safety / Environmental Information

- See separate MSDS sheet. (MSDS –Fortafix High Temperature Adhesive Fire Cement- Firebrand).
- RoHS Compliant.

## Guidelines for Use

### Application

- Thoroughly clean and degrease all surfaces to be bonded or sealed.
- A light surface abrasion of the material to be bonded will increase the surface area available for adhesion and improve mechanical key.
- Apply the Fire Cement as supplied to all surfaces to be bonded and complete tooling within 5-10 minutes.
- Clean any spillages immediately.
- Apply moderate pressure to ensure even anchorage and solid contact of the surfaces to be bonded, so that all surfaces are fully wetted.
- Secure components and allow the Fire Cement to set.
- All application equipment should be cleaned with warm water immediately after application.

### Curing Schedule

- As this product is water based, it is necessary to fully dry and dehydrate the adhesive.
- The curing of this product may vary depending on temperature, humidity, porosity of substrates, volume of adhesive and area etc. A rough guide for typical applications at room temperature and average humidity would be approximately 36-48 hours.
- Curing may be accelerated by the application of gentle and progressive heat (do not exceed 100°C during curing as this may lead to product failure).
- The cured product may be removed using steam/ boiling water (high pH will also aid removal).

### Storage

- Once opened this product is moisture sensitive avoid continuous exposure to air.
- Contents of partly used tubs should be slightly moistened with water and the lid tightly closed.
- Product should be stored in original sealed packaging between 5 - 30°C.
- Cartridges should be stored in an upright position at all times.
- Shelf life – 12 months.