



## DATA SHEET

### Fortafix High Temperature Adhesives

#### Fortafix 'Ceramik' T.C.Caulking Compound

- A water based Thixotropic Ceramic Adhesive/ Sealing Compound.
- A maximum continuous operating temperature of 1250°C.
- Designed for use where a high temperature rigid seal or adhesion is required.
- Can be used safely as an adhesive or sealant where resistance to the spread of flame is required.
- Available either in a cartridge or tin to suit most application requirements.

#### Typically Used For

- Adhesive – Bonding ceramics, glass, metals, concrete, stone, silicate fibre materials and many other surfaces.
- Sealant – High temperature rigid seals for flues, stoves and other heating devices.
- Fire protection applications

#### Principal Characteristics

- Suitable for Thin films/ Coating and Bonding.
- Maximum Continuous Service Temperature: 1250°C.
- Available in white or black.
- Ready to use (viscosity of the paste may be altered using "Ceramik Binder TC Grade").
- Sets to form hard and rigid ceramic mass which is resistant to thermal shock and age.

<b>Softening Temperature</b>	1200°C	<b>Melting Temperature</b>	1300°C	<b>pH</b>	13
<b>Expansion</b>		<b>Oxidation Resistance</b>	Excellent	<b>Acid Resistance</b>	Excellent – Except hydrofluoric
<b>Coverage</b>	45m @ 3mm diam bead	<b>Packaging</b>	300ml cartridge, 250ml, 1 and 5 L tins		

## Health and Safety / Environmental Information

- See separate MSDS sheet. (MSDS – Fortafix T.C. Caulking Compound).
- RoHS Compliant.

## Guidelines for Use

### Application

- Stir contents of the container prior to use, to ensure product is thoroughly mixed.
- 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 adhesive/sealant as supplied (using a mastic gun or spreader) to all surfaces to be bonded and complete tooling within 5-10 minutes.
- 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 adhesive 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.
- Product should be stored in original packaging between 5 - 30°C.
- Cartridges should be stored in an upright position at all times.
- Shelf life – 12 months.