



## DATA SHEET

### Fortafix High Temperature Adhesives

#### **FORTAFIX FIBORCLAD (ALL GRADES)**

- Water based Thixotropic Inorganic Adhesive.
- Designed for bonding and jointing all types of inorganic wall boards.
- Will comply with BS 476: Part 4: Non combustibility test for materials.
- Can be used safely as an adhesive where resistance to the spread of flame is required
- A maximum continuous operating temperature of  $\geq 1000^{\circ}\text{C}$  –  $1100^{\circ}\text{C}$  (Depending on Grade)
- Available in a range of viscosities: Grade 3 - Low viscosity, Grade 4, 5 - Medium viscosities and Grade 7, 9 - Higher viscosity.

#### **Typically Used For**

- Bonding inorganic wall boards, ceramics, glass, metals, concrete, stone, silicate fibre materials and many other surfaces.
- Fire protection applications

#### **Principal Characteristics**

- Suitable for Thin films/ Coating and Bonding.
- Maximum Continuous Service Temperature:  $\geq 1000^{\circ}\text{C}$  –  $1100^{\circ}\text{C}$  (dependent on Grade).
- Available as a cream paste (viscosity varies according to Grade).
- Possesses good wetting and penetration.
- Ready to use (Viscosity may be adjusted if required using "Fortafix Thinners 9479").

<b>Coverage</b>	4-6m <sup>2</sup> /L	<b>Acid Resistance</b>	Excellent – Except hydrofluoric	<b>Melting Temperature</b>	$\geq 1050^{\circ}\text{C}$ Depending on grade
<b>Softening Temperature</b>	$\geq 1000^{\circ}\text{C}$ Depending on Grade	<b>Packaging</b>	250ml, 1, 5 L and 25 L tins	<b>Expansion</b>	
<b>pH</b>	13	<b>Oxidation Resistance</b>	Excellent	<b>Shelf Life</b>	12 Months
<b>Grade 3 Viscosity</b>	6,000/2,800cP	<b>Grade 4 Viscosity</b>	30,000/10,000cP	<b>Grade 7</b>	200,000/50,000cP

## Health and Safety / Environmental Information

- See separate MSDS sheet. (MSDS – Fortafix Fiborclad).
- RoHS Compliant.

## Guidelines for Use

### Application

- Stir/shake contents of the container prior to use, to ensure product is thoroughly mixed.
- If viscosity adjustment is required “9479 Thinners” may be used without loss of adhesion.
- 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 serrated spreader or mastic gun) 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.

**Note:** In very warm atmospheres setting can be retarded by the addition of 5% to 10% clean water according to conditions prevailing at the time of application but it must be noted that the adhesive hardens by loss of moisture and too much added water may prolong hardening if the temperature reduces.

### 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.