FortaFix

A brand of MINKON

DATA SHEET

Fortafix High Temperature Adhesives

Product: FORTAFIX FIBORCLAD (ALL GRADES).

Principal Characteristics

Ready to use. Pre-mixed water based Ceramic Adhesive paste to +1000°C.

Fire Resistant - Water based Thixotropic Inorganic Adhesive.

Will bond to inorganic wall boards, ceramics, glass, metals, concrete, stone, silicate fibre materials, thermal insulation panels and many other non-combustible materials.

Maximum Continuous Service Temperature: > 1000°C (depending on Grade).

Available in a range of viscosities.

- Grade 3 - Low viscosity (6,000/2,800cP)
- Grade 4, 5 - Medium viscosity (10,000/30,000cP)
- Grade 7, 9 - Higher viscosity (50,000/200,000cP)

Applied by spray, cartridge or trowel

Possesses good wetting and penetration.

Sets to form hard and rigid ceramic mass which is resistant to thermal shock.

Can be used safely as an adhesive where resistance to the spread of flame is required

Fire Protection: Non-combustible adhesive/sealant

Will comply with BS 476: Part 4: Non combustibility test for materials & EN13501-1: Fire Test to Building Material - Class A1

Typical Applications

- **Fire & Stove Industries**
- **Building & Construction**
- **Fire Protection Industries**
- **Thermal Insulation Industries**

Health and Safety / Environmental Information

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

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Guidelines for Use

Application

Stir/shake 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 as supplied 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

This product is water based, it is necessary to fully dry and dehydrate the adhesive for use at high temperatures.

Initial 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.

Full curing is achieved by the application of gentle and progressive heat.

Care must be taken when raising the temperature through 100°C during first curing as this may lead boiling of residual water in the glue line and product failure.

Partially cured product may be removed using steam/ boiling water (very high pH will also aid removal).

Storage

Once opened, seal container, to avoid continuous exposure to air.

Cartridges should be stored in an upright position at all times.

Product should be stored in original packaging between 5 - 30ºC.

Protect from freezing – may cause separation of components.

Shelf life – 12 months.

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Characteristics:

Softening Temperature	**≥1000°C** **Depending on Grade**	Melting Temperature	**≥1050°C** **Depending on grade**
Coverage Rate	4-6 m2/litre	pH	**13**
Oxidation Resistance	**Excellent**	Alkali Resistance	**Can be re-dissolved at high pH**
Colour (FC/FS)	**Off-White/White**	Acid Resistance	**Excellent except for hydrofluoric**
Packaging	**250 ml, 1 litre, 5 litre**	**200 litre drums**	

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