



A brand of MINKON

DATA SHEET

Fortafix High Temperature Adhesives

Product: FORTAFIX FLAMEFILL - Non-Combustible Fire-Resistant Adhesive Putty

Principal Characteristics

Fire Protection: Non-combustible adhesive/sealant

Water based. Ready to use. Pre-mixed Inorganic Silicate Putty/Cement to +1400°C

Fire Protection: Non-combustible adhesive cement/sealant. Will comply with the requirements of:

BS 476: Part 4: Non combustibility test for materials

EN13501-1: Fire Test to Building Material - Class A1

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

An air drying, silicate-based material for bonding low porosity surfaces and for general sealing and repairing work where high temperature resistance (up to 1600°C) is required.

The product dries to a hard, cement-like material with good adhesion to many surfaces.

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

Odourless and non-toxic.

Typical Applications

- **Fire Protection** - Suitable for Bonding and thick sections
- **Sealing brickwork and flues** in walls, fireplaces, boilers, solid fuel burners
- **Cement** – High temperature cement for installation of fireplaces and hearths
- **Sealant** – High temperature rigid seals for joints on flues, stoves and other heating devices
- **LIMITATIONS:** FORTAFIX FLAMEFILL – will not bond to plastics and polymer materials, particularly where flexing may occur

Health and Safety/Environmental Information

- **CAUSTIC** - Read separate MSDS sheet before use. (MSDS – Fortafix FlameFill).

Wear goggles & gloves. If any of the adhesive comes into contact with eyes, then flush eyes liberally with clean water and seek medical advice. If accidentally ingested, seek medical attention and show the container or label.

Keep away from children & animals.

Guidelines for Use

Application

All surfaces must be clean and dry and free from dirt, dust, grease, and other contamination.

Apply the adhesive from the tub, forcing it into the area to be sealed, then immediately tool it down to ensure good adhesion.

When bonding materials, apply a bead of adhesive cement to one surface and immediately combine the two parts, applying pressure to ensure good surface contact.

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.

Allow to air dry for 24 hours, after which gentle heat can be gradually applied.

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

At temperatures in excess of 800°C the material will start to 'vitrify'.

Care must be taken when raising the temperature through 100°C during first curing as this may lead to 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.

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

Protect from freezing – may cause separation of components.

Shelf life – 12 months.



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Characteristics:

Application Temperature Range:	+5°C to +40°C
Initial Drying:	Skins within 5 minutes (20°C and 65% RH)
Through Drying:	Approx. 5mm/day (20°C and 65% RH)
Slump Resistance:	Excellent.
Flash Point:	Does not support combustion
Softening Temperature:	1400°C
Melting Temperature:	1600°C
pH:	13
Wet Density:	2.08 g/cm ³
Oxidation Resistance:	Excellent
Alkali Resistance:	Can be re-dissolved at high pH
Acid Resistance:	Excellent except for hydrofluoric
Packaging:	5 & 25kg tub
Colour:	Brown
Shelf Life:	12 months in unopened containers when stored under cool, dry conditions. (+5°C to +30°C)