



A brand of MINKON

DATA SHEET

Fortafix High Temperature Adhesives

Product: Fortafix 'Ceramik' T.C.Caulking Compound

Principal Characteristics

Fire Protection: Non-combustible adhesive/sealant

Water based. Ready to use. Cartridge applied. Pre-mixed Ceramic Adhesive paste to +1250°C.

Will comply with 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.

Designed for use where a high temperature rigid seal or adhesion is required.

Possesses good wetting and penetration.

Sealant – High temperature rigid seals for flues, stoves and other heating devices.

Can be used for bonding and jointing most types of fire-resistant boards and materials.

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

Limitations – Fortafix TC Caulking Compound will not bond to plastics and polymer materials, particularly where flexing may occur.

Air setting (time related) - to form hard and rigid ceramic mass which is resistant to fire & thermal shock.

Typical Applications

- Fire Protection Industries
- Stove & Heating Industries
- Fire Curtains
- Building & Construction
- Thermal Insulation Industries

Health and Safety / Environmental Information

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

Guidelines for Use

Application

Ensure product is thoroughly mixed, prior to use.

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 and can be air set - depending on temperature, humidity, porosity of substrates, glue line thickness, 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 can be accelerated by the application of gentle and progressive heat.

Under these circumstances - care must be taken when initially raising the temperature through 100°C, as this may lead boiling of residual water in the glue line and product failure.

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 - 30°C.

Protect from freezing – may cause separation of components.

Shelf life – 12 months.



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Characteristics:

Softening Temperature	1250°C	Melting Temperature	1300°C
Wet Density	2.20 gcm ⁻³	pH	13
Oxidation Resistance	Excellent	Alkali Resistance	Can be re-dissolved at high pH
Colour	Off-white or Black	Acid Resistance	Excellent except for hydrofluoric
Packaging	300ml Cartridge.	250 ml, 1 litre, 5 litre tin.	

Cartridge Applied Adhesive Sealant Bead Length (300 ml cartridge) Calculation

Bead Diameter mm	Bead Length m. from 300 ml Cartridge
1.00	394.70
2.00	98.68
3.00	43.86
4.00	24.67
5.00	15.79
10.00	3.95

Bead Diameter mm vs Bead Length m.

