



DATA SHEET

Fortafix High Temperature Adhesives

FORTAFIX FLAMESEAL - Non-combustible High Temperature Sealant/Adhesive

Type: Non-combustible Inorganic Silicate Paste
Use: Fire Protection - Sealing pipe-work, burners and flues, bonding fireproof board and materials
Rating: Will comply with BS 476: Part 4: Non combustibility test for materials & EN 13501-1: Fire Test to Building Material - Class A1

DESCRIPTION

- FORTAFIX FlameSeal – A cartridge applied, non-combustible, High Temperature Adhesive/Sealant.
- Air drying, silicate based material for bonding low porosity surfaces and for general sealing and repair work where high temperature resistance >1000°C is required.
- The product dries to a hard, ceramic material with good adhesion to many surfaces.

SPECIFICATION COMPLIANCE

- Fire Protection - Will comply with BS 476: Part 4: Non combustibility test for materials & EN 13501-1: Fire Test to Building Material - Class A1

APPLICATIONS

- Fire Protection – bonding and jointing of fireproof board and other fire protection materials
- Sealing around pipe-work and flues in fireplaces, boilers, solid fuel burners and central heating systems.

LIMITATIONS

- FORTAFIX FlameSeal – Non-Combustible High Temperature Adhesive/Sealant will not bond to plastics and polymer materials, particularly where flexing may occur.

APPLICATION INSTRUCTIONS

- All surfaces must be clean and dry and free from dirt, dust, grease and other contamination.
- Apply the adhesive from the cartridge, 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 to one surface and immediately combine the two parts, applying pressure to ensure good surface contact.
- Allow to air dry for 24 hours, after which gentle heat can be gradually applied.
- At temperatures in excess of 800°C the material will start to 'vitrify'.

STORAGE

- Store in cool dry conditions
- PROTECT FROM FROST.

HEALTH AND SAFETY

See Health & Safety data sheet before using the product. Should any of the adhesive come 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 AND ANIMALS.

Health and Safety / Environmental Information

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

TECHNICAL DETAILS

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. Soft highly thixotropic paste.
Flash Point:	Does not support combustion
Softening Temperature	1000°C
Melting Temperature	1100°C
pH	13
Wet Density	2.08 g/cm ³
Shrinkage (150-500°C)	1.5%
Thermal Conductivity	0.5-1.0 Wm-1K-1
Thermal Expansion	18-20 x 10 ⁻⁶ C-1
Compressive Strength	28.4 MPa
Shear Strength	3.2 MPa
Tensile Strength (between steel plates)	1.7MPa
Max. Tensile strength (bending test)	7.1 MPa
Hardness	VPN 6 (1kg load)
Oxidation Resistance	Excellent
Alkali Resistance	Can be re-dissolved at high pH
Acid Resistance	Excellent except for hydrofluoric
Packaging	300ml Cartridge.
Colour	Off-White/White
Shelf Life:	12 months in unopened containers when stored under cool, dry conditions. (+5°C to +30°C)

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