FortaFix

A brand of MINKON

DATA SHEET

Fortafix High Temperature Adhesives

Product: FORTAFIX FLAMEBOND G1 – Fire Resistant Binder/Primer

Principal Characteristics

Fire Protection: Non-combustible adhesive primer/binder

Low Viscosity. Water based clear liquid. Ready to use. Temperature resistant to +750°C

Possesses good wetting and penetration properties.

Suitable for Thin films – Sealing, Coating and Bonding.

Can be used for viscosity reduction of other FlameBond products

Designed for use with most types of fire-resistant boards and materials & can be used as a surface primer e.g. for sealing porous substrates (e.g. fireboard) or for bonding, assembly and lamination applications

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

Air setting (time related) – forms a hard non-combustible glassy mass which is resistant to fire & thermal shock

Fire Protection - Will comply with requirements of:

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

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

Relative Viscosity	70 cP. @ 20°C Spindle 3 Speed 10	**Wet Density**	1.41 g/cm^{-3}
Softening Temperature	700°C	**Melting Temperature**	800°C
Solids by weight	38.5%	**pH**	13
Oxidation Resistance	Excellent	**Acid Resistance**	Excellent – Except hydrofluoric
Packaging	250ml, 1,5 and 25 L		

Typical Applications

- **Fire Protection Industries**
- **Building & Construction**
- **Fire Door Manufacture**
- **Thermal Insulation Industries**

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Health and Safety / Environmental Information

- See separate MSDS sheet. (MSDS – Fortafix FlameBond G1).
- RoHS Compliant.

Guidelines for Use

Application – For use as a surface primer

Product may be mixed up to 50/50 with water for use as a surface primer for very porous substrates.

Application – For use as a laminating adhesive

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.

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

Protect from freezing – may cause separation of components.

Shelf life – 12 months.