DATA SHEET

Fortafix High Temperature Adhesives

FORTAFIX FLAMEBOND G1 - FIRE RESISTANT BINDER/PRIMER

- Clear, water based, high temperature resistant and non-combustible adhesive binder and primer
- Fire Protection - Will comply with requirements of BS476 Part 4
- Designed for use as an adhesive in light film applications.
- Can be used as a surface primer, or for viscosity reduction of other FlameBond products
- A maximum continuous operating temperature of 800ºC.

Typically Used For

- Fire Protection – thin film adhesive binder for sealing porous substrates (e.g. fireboard) or bonding, assembly and lamination applications.

Principal Characteristics

- Suitable for Thin films – Sealing, Coating and Bonding.
- Maximum Continuous Service Temperature: 800°C.
- Available as a clear liquid.
- Ready to use.

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	**Thermal conductivity**	1-2 W.m^{-1}.K^{-1}	**Packaging**	250ml, 1,5 and 25 L
Solids by weight	38.5%	**pH**	13	**Volume Resistivity**	>10^7
Oxidation Resistance	Excellent	**Acid Resistance**	Excellent – Except hydrofluoric	**Thermal Expansion X 10^{-6} per °C**	5 @ 100°C 30 @300°C

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Health and Safety / Environmental Information

- See separate MSDS sheet. (MSDS: FORTAFIX FLAMEBOND G1 Binder/Primer).
- 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

- Stir contents of the container prior to use, to ensure product is thoroughly mixed.
- Thoroughly clean and 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 sealant 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

- As this product is water based, and sets by water loss from the glue line - it is necessary to fully dry and dehydrate the adhesive for use.
- The 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.
- Curing may be accelerated by the application of gentle and progressive heat (do not exceed 100°C during curing as this may lead to product failure).

Storage

- Once opened this product is moisture sensitive avoid continuous exposure to air.
- Product should be stored in original packaging between 5 - 30ºC.
- Shelf life - 12 months.