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:
  - BS 476: Part 4: Non combustibility test for materials
  - EN 13501-1: Fire Test to Building Material - Class A1
- 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 800°C.

**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.

<table>
<thead>
<tr>
<th>Relative Viscosity</th>
<th>70 cP. @ 20°C Spindle 3 Speed 10</th>
<th>Wet Density</th>
<th>1.41 g/cm³</th>
<th>Softening Temperature</th>
<th>700°C</th>
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<tbody>
<tr>
<td>Melting Temperature</td>
<td>800°C</td>
<td>Thermal conductivity</td>
<td>1-2 W.m⁻¹.K⁻¹</td>
<td>Packaging</td>
<td>250ml, 1,5 and 25 L</td>
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<tr>
<td>Solids by weight</td>
<td>38.5%</td>
<td>pH</td>
<td>13</td>
<td>Volume Resistivity</td>
<td>&gt;10⁷</td>
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<td>Oxidation Resistance</td>
<td>Excellent</td>
<td>Acid Resistance</td>
<td>Excellent – Except hydrofluoric</td>
<td>Thermal Expansion</td>
<td>5 @ 100°C 30 @300°C</td>
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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 - 30°C.
- Shelf life - 12 months.