Fortafix High Temperature Adhesives

**L7 – FORTAFIX HIGH TEMPERATURE FIXATIVE/THINNER**

- Clear water based high temperature resistant general purpose fixative.
- Designed for use as a clear glassy transparent adhesive in light film applications.
- Can also be used to reduce the viscosity of other Fortafix High Temperature adhesives.
- A maximum continuous operating temperature of 800°C.

**Typically Used For**

- Fixing, Bonding, Assembling, Repairing – glass items and ceramics.
- High temperature thinner for Fortafix High Temperature Adhesive - all Grades

**Principal Characteristics**

- Suitable for Thin films/ Coating and Bonding.
- Maximum Continuous Service Temperature: 800°C.
- Available as a clear liquid.
- Can be re-dissolved at high pH and temperature
- 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>
</tr>
</thead>
<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>
</tr>
<tr>
<td>Solids by weight</td>
<td>38.5%</td>
<td>pH</td>
<td>13</td>
<td>Volume Resistivity Ω-cm</td>
<td>&gt;10⁻⁷</td>
</tr>
<tr>
<td>Oxidation Resistance</td>
<td>Excellent</td>
<td>Acid Resistance</td>
<td>Excellent – Except hydrofluoric</td>
<td>Thermal Expansion X 10⁻⁶ per °C</td>
<td>5 @ 100°C 30 @300°C</td>
</tr>
</tbody>
</table>
Health and Safety / Environmental Information

- See separate MSDS sheet. (MSDS: L7 – High Temperature Fixative/Thinner).
- RoHS Compliant.

Guidelines for Use

Application

- Stir/shake contents of the container prior to use, to ensure product is thoroughly mixed.
- 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 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, it is necessary to fully dry and dehydrate the adhesive.
- 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).
- The cured product may be removed using steam/boiling water (high pH will also aid removal).

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.