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DATA SHEET

Fortafix High Temperature Adhesives

Product: L7 – FORTAFIX HIGH TEMPERATURE FIXATIVE/THINNER

Principal Characteristics

Ready to use. Non-combustible. Clear water based high temperature resistant general-purpose fixative.

Ready to use. Available as a clear liquid.

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.

Maximum Continuous Service Temperature: 700°C.

Suitable for Thin films/ Coating and Bonding.

Fire Protection: Non-combustible adhesive binder.

Will comply with BS 476: Part 4: Non combustibility test for materials & EN13501-1: Fire Test to Building Material - Class A1

Relative Viscosity	70 cP @ 20°C Spindle 3 Speed 10	Softening Temperature	700°C	Melting Temperature	800°C
Solids by weight	38.5%	Wet Density	1.41 g/cm ³	pH	13
Thermal conductivity	1-2 W.m ⁻¹ .K ⁻¹	Thermal Expansion X 10 ⁻⁶ per °C	5 @ 100°C 30 @ 300°C	Volume Resistivity Ω-cm	>10 ⁷
Oxidation Resistance	Excellent	Acid Resistance	Excellent – Except hydrofluoric	Packaging	250ml, 1, 5 and 25 L

Typical Applications

Fixing, Bonding, Assembling, Repairing – glass items and ceramics.

High temperature thinner for Fortafix High Temperature Adhesive - all Grades

Health and Safety / Environmental Information

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

Guidelines for Use

Application

Stir 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 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, it is necessary to fully dry and dehydrate the adhesive for use at high temperatures.

Initial 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.

Full curing is achieved by the application of gentle and progressive heat.

Care must be taken when raising the temperature through 100°C during first curing as this may lead to boiling of residual water in the glue line and product failure.

Partially cured product may be removed using steam/ boiling water (very high pH will also aid removal).

Storage

Once opened, seal container, to avoid continuous exposure to air.

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

Protect from freezing – may cause separation of components.

Shelf life – 12 months.