Fixwool® Adhesives

DESCRIPTION

Fixwool Adhesives are specially developed for use with many Unifrax fibre insulation products and are used to bond blankets, papers, felts, boards and modules onto various refractory and metallic surfaces.

- Fixwool Adhesive 100 - Use limit of 1000°C
- Fixwool Adhesive 130 - Use limit of 1300°C
- Fixwool Adhesive 135 - Use limit of 1350°C
- Fixwool Adhesive 150 - Use limit of 900°C up to 1500°C
- Fixwool Adhesive 170 - Use limit of 1700°C

GENERAL CHARACTERISTICS

Fixwool Adhesives have the following outstanding characteristics and advantages:

- High temperature stability
- Very good homogeneity
- Excellent thickness uniformity
- Easy to apply
- Good shelf life

TYPICAL APPLICATIONS

- Cementing fibre modules to various substrates
- Gluing fibre blankets to aluminium foil
- Mortar for refractory bricks

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

Unifrax Ltd.
T:+44 (0)1744 88 7600   F:+44 (0)1744 88 9916
www.unifrax.com
**PREPARATION AND USE OF ADHESIVES**

**Fixwool Adhesive 100**

Fixwool Adhesive 100 is an air drying adhesive based on a mixture of inorganic chemicals for use up to 1000°C. It can be used to stick a range of fibre products to ceramic, metallic and fibre surfaces. Drying time is a function of ambient temperature.

**Fixwool Adhesive 130**

Fixwool Adhesive 130 is an air drying adhesive, which is used to bond thin fibre products such as boards, felt, blankets and paper onto cold, non-porous surfaces such as steel, glass or dense refractories. This glue has also been used successfully in bonding modules to modules (Density 160-200 kg/m3). The product must be mixed well prior to use and porous surfaces should be wet out with water prior to application of the adhesive and the consistency may be adjusted by adding water up to a maximum of 5% by weight.

**Fixwool Adhesive 135**

Fixwool Adhesive 135 is an air drying refractory cement. This is used primarily to glue bonded modules onto refractory surfaces but may also be used for sticking blanket onto an expanded metal backing and for cementing bricks. The contents should be mixed well with an electric stirrer. Once mixed, if not used for a period of 10 minutes or more remixing will be required. Drying time is a function of ambient temperature.

**Fixwool Adhesive 150**

Fixwool Adhesive 150 is another refractory cement but with a chemical bond mechanism. It is used to glue modules on top of ceramic fibre blocks (FOF method) or onto traditional refractories in good condition (LOR method). The use temperature must exceed 900°C so that chemical bond occurs. The contents should be mixed well with an electric stirrer. Once mixed, if not used for a period of 10 minutes or more remixing will be required. Drying time is a function of ambient temperature.

**Fixwool Adhesive 170**

Fixwool Adhesive 170 is a high temperature adhesive designed to bond ceramic fibre products onto fire bricks, refractory bricks and refractory concrete. Mix gently prior to use. Please note this adhesive cannot be used if the ceramic composition of the substrate contains more than 10% Calcium Oxide or is silica brick based.

**AVAILABILITY**

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<tr>
<th>Packaging</th>
<th>100</th>
<th>130</th>
<th>135</th>
<th>150</th>
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<tr>
<td>1 kg can</td>
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**Shelf Life & Storage**

Fixwool Adhesives can be stored for up to 9 months, based on unopened containers kept in cool dry storage conditions. Storage between 5 and 20°C is recommended. (Excessive heat during storage, repeated freezing or leaving containers open to atmosphere will adversely affect shelf life.)

**HANDLING INFORMATION**

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

*The maximum continuous use limit temperature for these products depends upon operating and application conditions. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.*