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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 FX	-	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.

TYPICAL PRODUCT PARAMETERS

Fixwool Adhesive	100	FX	135	150	170
Typical Chemical Analysis (dry wt. %)					
SiO ₂	> 60	< 25	> 80	> 55	> 50
Al ₂ O ₃	< 20	> 70	< 15	> 35	> 44
Na ₂ O + K ₂ O	< 20	< 7	< 5	< 5	-
Fe ₂ O ₃ + TiO ₂	< 2	< 1	< 1	< 2	< 4
CaO + MgO	Trace	-	-	-	-
Physical Properties					
Colour	Brown	White	Brown	Brown	-
Use Limit (°C) *	1000	1300	1350	1500	1700
Shelf life (months)	9	12	9	9	9
Application					
Supplied	Ready to use	Ready to use	Ready to use	Ready to use	Ready to use
Consumption (kg/m ²) **	1.5	1.0	1.7	1.8	2.1
Application method	Brush / Trowel	Brush / Trowel	Trowel	Trowel	Trowel

*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.

** The consumption figures are based on 1mm coating thickness and are estimated only. Actual consumption will be dependant upon the application and substrate type.

PREPARATION AND USE OF ADHESIVES

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 FX is a silicate-based adhesive for adhering fibre products to cold refractory brickwork or steelwork. It is best suited to thin products such as die cut pieces of blanket, felt, paper and board. Fixwool FX requires the contents to be mixed well with an electric stirrer. If the glue is difficult to mix, break the solid component into small pieces before mixing with the liquid. It can be applied using a brush, spatula or trowel. Drying time is usually in the region of 3-6 hours, subject to ambient conditions.

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 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 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

Packaging	100	FX	135	150	170
2 kg pail		✓			
5 kg pail					
10 kg pail		✓			
15 kg pail	✓				
25 kg pail	✓		✓	✓	✓

Shelf Life & Storage

Fixwool Adhesives can be stored for approximately 9 or 12 months as listed in the table, 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.

Supplied by:

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