Fixwool® Coatings

DESCRIPTION

Fixwool Coatings are specially developed for use with many Unifrax fibre insulation products. Fixwool M and Fixwool M-HD coatings help protect the hot face of fibre linings against gas velocity, flame impingement and shrinkage. Fixwool 180 coating is designed to provide an erosion and abrasion resistant surface, enabling use as a protective coating for a wide variety of porous and non-porous materials. Fixwool Rigidizers are specially developed hardening solutions that are used to protect exposed fibre surfaces against gas velocity or turbulence and also can be used to provide a higher degree of strength and hardness throughout fibrous products.

GENERAL CHARACTERISTICS

Fixwool Coatings have the following outstanding characteristics and advantages:

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

TYPICAL APPLICATIONS

- Protect fibre linings against corrosion and abrasion
- Insulation and protection for metallic surfaces
- Hot gas erosion resistant coating in furnaces and ducts
- Structural hardening agent for boards

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.
PREPARATION AND USE OF COATINGS

Fixwool M is a high temperature surface coating based on a special mullite fibre composition. It is applied to the hot face of fibre module linings and burner blocks to protect against corrosion, abrasion and shrinkage. It is for use up to 1500°C. Fixwool M is delivered in the form of a powder that must be mixed with water. The quantity of water depends upon the application. For spray coating 50% by weight of water is required: for trowel application 20% by weight of water is sufficient. Mix well with an electric stirrer. The thickness of the coating should be 3mm to provide protection.

Fixwool M-HD is a mullite based surface coating, ideal for use on fibrous insulation and light-weight refractory materials (either new or fired surfaces). Upon firing the coating (typical thickness 1.5mm) forms a hardened encapsulating shell that resists high gas velocities and flame impingement. Preparation requires the contents to be mixed well with an electric stirrer. Adequate ventilation is required during spray application and precautions should be taken against particle inhalation.

Fixwool 180 is an air setting protective cement used for insulation and protection of metallic substrates. It has very good resistance to abrasion and flame erosion. It resists any chipping or flaking off due to its exceptional thermal shock resistance. Preparation requires the contents to be mixed well using a whisk or stirrer. During spray application, adequate ventilation must be ensured and precautions taken against inhalation of particles.

Rigidizers are supplied ready to use. They can be sprayed or brushed onto blankets, papers, felts and boards to give an erosion resistant surface. Rigidizers can also be applied using a dipping process, which provides a higher degree of strength and hardness throughout the substrates thickness. WFP contains a small percentage of anti-freeze, D15 should be protected from frost.

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.