Kaowool™ Cement & Veneering Cement

DESCRIPTION
Triton Kaowool™ Cement is a high temperature, air-setting cement for use as an adhesive for ceramic fibre products, or as a refractory surface coating. It sets to form a strong, hard film which develops a ceramic bond at high temperatures yet maintains excellent resistance to thermal shock.

TYPE
Air setting cement

CONTINUOUS USE TEMPERATURE
1260°C

The maximum use temperature depends on the application. In case of doubt, refer to your local Morgan Thermal Ceramics distributor for advice.

APPLICATIONS
- Surface coating
  At high temperature the cement forms a hard eggshell ceramic film on most clean and grease free surfaces. This film is completely stable.

  Paper, Board or Moist Felt may be coated with Cement as a protection against high gas velocities or against molten metal contact, eg aluminium launders lined with Paper, and sample bombs in steelworks where Cement is applied to the outside surface.

  A special cement and range of protective surface coatings for use with Unifelt in veneering applications is available, and details can be found on the Unifelt and Veneering Cement Data Sheets.

- Bonding
  Cement is recommended as a high temperature adhesive to bond ceramic fibre products together, or to attach them to suitable refractory surfaces.

APPLICATION PROCEDURE
Cement can be applied by brushing or dipping. Surfaces should be free of grease, dirt and dust, the best adhesion being obtained on sand-blasted or porous surfaces. The coating thickness on solid surfaces should be as thin as possible, followed by drying at temperatures up to a maximum of 90°C.

The viscosity of the cement can be reduced, if required, by the addition of small quantities of clean tap water.

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Main properties		
Continuous use temperature	°C	1260
Properties Measured under Ambient Conditions (23°C/50% RH)		
Colour		white
Density	kg/m^3	1840-1950
Compressive Strength	kg/m^3	45
High Temperature Performance		
Specific heat capacity at 100-550°C	kJ/kg.K	1.04-1.14
Melting temperature after drying	°C	1760
Permanent linear shrinkage after 24 hours at		
1000°C	%	2.15
1260°C	%	3.2

Availability and Packaging
Supplied in 5 litre (10kg) plastic containers. 5 litres will coat an area of approximately 2.5m2 at a thickness of 2mm, (about 28 modules at a size of 300 x 300mm).

Notes
1. Kaowool Cement is not a contact adhesive and is not recommended for use on smooth metal surfaces.
2. Precautions should be taken against freezing.
3. The product has a shelf life of approximately 6 months.