

Kaowool™ Cement & Veneering Cement

Product Data Sheet

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.

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 0 C/50% RH)	
Colour	white
Density, kg/m ³	1840-1950
Compressive Strength, kg/m ³	45
High Temperature Performance	
Specific heat capacity at 100-5500C, 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.

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