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Lubisol Ltd.

PRODUCT SPECIFICATIONS

Lubisol Cover Coat

I. INFORMATION

Lubisol Cover Coat (Capping Cement) is a dry mixture of different silicate refractory components and it is supplied in 24 kg paper bags. A liquid bond “Lubisol LFS” – Ceramic Adhesive, is supplied separately packed in 28 kg plastic containers. The dry powder and the liquid bond are mixed together in a mortar mixer before the application. For the convenience of the users, they can mix 6 bags of dry powder with 1 plastic container of Lubisol LFS bond. At the end of the mixing it is necessary to add a small amount of water to obtain the desired fluidity of the mix.

Lubisol Cover Coat is a heat setting composition and it becomes hard after being dried for 3-4 hours at a temperature above 100 °C.

The wet mix of dry powder and liquid chemical bond starts to harden slowly at room temperature after 2-3 hours.

The two components packed separately have a very long shelf life – more than 5 years. They can be stored in any warehouse, without any special requirements for temperature or humidity.

The application of the Lubisol Cover Coat is done by trowel on a cold or hot surface. It can be applied as a top layer of the insulation of glass furnace crowns, or as a sealing layer on the vertical walls.

II. CHEMICAL COMPOSITION (%)

Approximate, Calcined Basis

Lubisol Cover Coat	
SiO ₂	> 90.0
Al ₂ O ₃	< 4.0
Na ₂ O + K ₂ O	0.9
Fe ₂ O ₃ + TiO ₂	0.6
CaO + MgO	0.6
P ₂ O ₅	2.2

Note: The values of the chemical composition are given as information. They are not a part of the purchasing contract.

III. OTHER PROPERTIES (Typical)

Lubisol Cover Coat	
Material requirement	1.92 kg/dm ³
Specific gravity after firing at 500 °C	1.52 kg/dm ³
Thermal conductivity at 20 °C	0.65 W/m.K
Thermal conductivity at 500 °C	0.85 W/m.K
Thermal expansion up to 1380 °C	1.3 %
Max. Working temperature	1380 °C
Storage	60 months

IV. SAFETY INFORMATION

The Liquid Bond Lubisol LFS contains a diluted mineral acid - H₃PO₄. It cannot burn or explode. It is suitable for any kind of transport.

Safety measures should be taken to protect the eyes and hands of the workers from the action of this acid. They must be wearing protective goggles and gloves. The acid is easily soluble in water. If needed for any reasons, the skin and eyes should be washed with clean water.