KEM CRETESET 200 L

High Performance Liquid Accelerator for Wet-Mix Shotcrete

Ref: CA/SA-V1-1012

Description

KEM CRETESET 200 L is a high performance accelerator, mainly for use in the wet spraying process, but can also be used in the dry spraying process. It is a liquid additive whose dosage can be varied to the desired setting and hardening times.

Uses

KEM CRETESET 200 L is suitable for all applications where large coating thicknesses and early strength values are decisive. Principal applications are

- Tunnels
- Galleries
- Mining
- Slope and construction pit protection
- Repair works

Advantages

- Faster setting and higher early strengths than with shotcrete without set accelerators
- Increased layer thicknesses possible
- Secures rapid work progress
- Low viscosity
- Easy to mix into the concrete, also at low temperatures
- Low consumption
- Achieves higher final strengths and more durable shotcrete as compared with traditional Accelerators

Typical Properties

Physical Appearance	**:** Clear to off white
Specific Gravity	: 1.28
Chloride content	**:** < 0.2 %
pH	**:** 11 ± 1

The high performance liquid accelerator for shotcrete shall be KEM CRETESET 200 L, a caustic, high solids (> 45%) formulation. The product shall have density in excess of 1.28 and shall be capable of enhancing performance of wet shotcrete by reducing the rebound by 50% of control.

Direction for use

Surface Preparation: The substrate must be clean and free from loose particles and only wet to lightly sprinkled.

Mixing: Fresh standard Portland cement should be used because the reaction time is reduced by prolonged storage. Preliminary tests are recommended for cements providing high sulphate resistance and for foreign cements. Favourable granulometric structure and sand quality are very important for high impermeability and strength values of the applied shotcrete. The concrete (350-550 kg of cement per m^3) is batched in the concrete mixer and applied by means of a screw or piston machine. KEM CRETESET 200 L is introduced with a proportioning pump into the compressed air which is added at the nozzle.

Dosage

The dosage depends upon required setting time and hence the dosage is determined by the type of substrate and its water run off. Dosage has also to be adjusted to the temperature of the substrate and the sprayed material, and to the reaction time of the cement. According to the required setting time, the consumption of KEM CRETESET 200 L ranges between 3-8% of the binder weight. Overdosing (>8%) can cause a corresponding reduction in final strength.

Packaging

275 kg drums.

Storage and Shelf life

Storage: KEM CRETESET 200 L must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +15°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life: 12 months when stored as above.

Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped

laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item.

Chembond Chemicals Limited

Chembond Centre, EL-71, MIDC,
Mahape, Navi Mumbai, India 400 710.
Tel.: +91 22 39213 000 , Fax: +91 22 3921 3100
Website:www.chembondindia.com,
E-mail: enquiries.conschem@chembondindia.com