



Concrete Retarder



RAMKA
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CHEMICALS

LICO® is a brown liquid concrete retarder. After addition to concrete, its polar molecules delay saturation of calcium ions in the aqueous phase, thereby delaying cement hydration and concrete setting.

Applications

- Mass concrete placements
- Semi-mass concrete placements
- Production of concrete with suitable pumpability

Approvals / Standards

- ASTM C494M Type B
- EN 934
- INSO 2930

Advantages / Benefits

- Facilitates concreting in hot and windy regions
- Enables concrete transport over long distances
- Improves concrete response to vibration
- Helps prevent cold joints in large-area placements
- Helps prevent surface cracking
- Compatible with Portland cements
- Improves long-term concrete strength

Guideline for Use

LICO may be mixed with part of the mixing water before addition, added to the prepared concrete and mixed before placement, or introduced at the batching plant or into the truck mixer for ready-mixed concrete. Dose accurately in accordance with the product label.

Dosage

The average dosage varies from 0.1 to 0.3% by weight of cement, depending on air temperature, concrete temperature, cement content and the required setting delay. Determine the exact dosage through laboratory trials.

Storage

+10°C to +30°C; store in dry conditions away from direct sunlight.

Packaging

20 kg plastic can

Shelf Life

1 year from the date of production in the original packaging.

Health and Safety

- Do not swallow and avoid contact with the eyes.
- In case of accidental contact with the skin or eyes, rinse immediately with plenty of fresh water.
- If swallowed, seek immediate medical attention.
- Refer to the Material Safety Data Sheet (MSDS).
- Non-flammable.

Basis Of Data

Product Information

density	1.1±0.05 g/cm ³
Chloride ion	None



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