

# CORUNEX

improving life  
without compromise

## TECHNICAL DATA

CORUCRYSTAL LKT  
Liquid Concrete  
Admixture Creating  
Crystalline Effect



## PRODUCT DESCRIPTION

CORUCRYSTAL LKT is liquid concrete additive with capillary effect that creates smooth crystal fibers within the capillary spaces of the concrete, ensuring that the concrete remains permanently waterproof.

## AREAS OF USE

- In all concrete applications where crystalline capillary water impermeability is required, in foundations, reinforced concrete curtains,
- In tunnels, dams,
- In bored pile foundations,
- In precast concrete elements,
- In drinking water and wastewater tanks,
- In treatment water facilities,
- In swimming pools,
- In elevator pits,
- Used in underground parking lots

## *PRODUCT FEATURES*

- Protects concrete against positive and negative water pressure.
- It is constantly active during the curing period and in every contact with water; it provides permanent sealing by filling the capillary gaps in the concrete with insoluble nano-sized crystals.
- It is not toxic. There is no harm in using concrete insulated with CORUCRYSTAL LKT in water tanks.
- It is permeable to water vapor and allows the concrete to breathe.
- Since it is added to the concrete mixture as a liquid, it can be used easily without the risk of clumping when compared to powder products.
- It reduces costs in terms of labor and time.
- Ideal for insulation of bored pile raft foundations.
- It does not require any other waterproofing application.
- Does not harm the environment and human health

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## *APPLICATION*

Shake the CORUCRYSTAL LKT in the drum before application. The Water/Cement ratio of the concrete to which the product will be added should not exceed 0.55. CORUCRYSTAL LKT is added to the concrete at a rate of 2% of the weight of cement it contains.

If it is to be done at the construction site, 2% of the cement weight is added to the concrete ready for pouring in the concrete mixer and mixed for approximately 5 minutes without delay. If it is to be done at the concrete plant; the product is added to the concrete mixing water and this mixture is added to the concrete as the last component. The working time of the product is approximately 45 minutes after it is added to the mixture.

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## *PACKAGING AND CONSUMPTION*

If Water/Cement < 0.55, 2% of the cement weight in the concrete mixture, (Water/Cement ratio should not exceed 0.55.)

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## *STORAGE*

It can be stored for 12 months in its unopened original packaging, in environments between +5°C and +35°C, away from direct sunlight, and protected from excessive heat and humidity.

## *WARNINGS*

Water/cement ratio should not exceed 0.55. When using CEM II and III type Portland cement, it is recommended to use a setting retarder. It may be harmful to health in contact with skin. Do not apply in frosty weather or in weather with risk of frost. Protect the applied surface from rain, frost, spring traffic and high humidity until it is completely dry. Do not apply in conditions where the surface and ambient temperature is lower than +5 °C and higher than +35°C. The formation of crystalline sediments at the bottom of the package is an indication that the ambient temperature has decreased during storage. Before use, the product should be stored in a warm environment to ensure that the crystals dissolve and then put into use.