



## TECHNICAL DATA

CORU ADMIX



## *PRODUCT DESCRIPTION*

CORU ADMIX is a new generation waterproofing additive that makes the concrete impermeable to water by forming an insoluble crystal structure in the capillary cracks and pores within the concrete as a result of its reaction with the moisture in the concrete.

## *FEATURES*

During the setting and hardening of cement-based products, salts that are easily dissolved in water are released. CORU ADMIX active chemicals reach the cracks and capillary spaces in the concrete and react with the minerals in the concrete to produce insoluble network crystals. These crystals fill the capillary spaces in the cement-based structure and create a healthy texture that is absolutely impermeable to water and does not prevent the structure from breathing. It prevents sudden cracks in the concrete thanks to the natural rock fibers in its structure.

# AREAS OF USE

- In foundations, reinforced concrete curtains,
  - In the tunnels,
  - In dams,
  - In bored pile foundations,
  - In precast concrete elements,
  - In water tanks,
  - In treatment water facilities,
  - In swimming pools,
  - In elevator pits,
  - In underground passages,
  - In trapezoidal channels,
  - In all kinds of underground concrete facilities,
  - In structures exposed to the sea,
  - In the production of interlocking paving stones,
  - In HEPP tunnels,
  - On concrete walls and floors,
  - Used in underground car parks.
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# ADVANTAGES

- It protects concrete and reinforcement iron by preventing corrosion.
- It is resistant to freeze-thaw cycles.
- It integrates with the structure it is applied to, providing permanent waterproofing that does not wear out, tear, puncture, separate from the surface, seamless and uninterrupted. It is a concrete additive that contains special polymers mixed with natural rock fibers, is crystalline based, reactive, does not contain sand and cement, and provides water impermeability. With these features, clumping does not occur in the mixture.
- Its application is practical. It consists of mixing the product with the mortar in the appropriate amount, there is no possibility of experiencing problems due to workmanship error. It provides high efficiency, low costs and durability.
- It provides a very economical solution.
- It protects the concrete against positive and negative water pressure. It is water vapor permeable and allows the concrete to breathe.
- Resistant to high hydrostatic pressure.
- It is constantly active during the curing period and in every contact with water, and provides continuous sealing by filling the capillary gaps in the concrete with insoluble nano-sized crystals. It prevents moisture from penetrating into the concrete.
- Since it does not contain toxic substances, it can be used safely in drinking water tanks, food and grain silos.
- There is no harm in using CORU ADMIX mixed concrete in the production of water tanks.
- It reduces costs in terms of labor and time.
- Ideal for insulation of bored pile raft foundations.
- It maintains its protective properties even in cases where the concrete surface is damaged.
- It does not require any other waterproofing application.

- It does not harm the environment or human health.
- Reduces chloride permeability and carbonation.
- It protects the concrete by preventing waterborne salts and various harmful chemicals from entering and moving in the concrete.
- It does not require protection concrete on concrete. It does not require protection before filling in curtain concrete.

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## *APPLICATION*

To ensure an effective mixture, always mix at high speed for 15 minutes before pouring. If a thickening additive is also required, first add CORU ADMIX and then the other additive. Do not add water to the mixture to increase the slump feature. It is sufficient to pour the first 25 cm of the raft concrete horizontally as CORU ADMIX-added concrete. However, in order to ensure insulation integrity in the curtains, the areas of the raft that come into contact with the soil should also be CORU ADMIX-added. In addition, in risky points such as elevator pits, the entire horizontal and vertical areas of the raft should be poured with additive. In order to prevent cold joint formation, the upper raft concrete (non-additive concrete) layer should be poured before the 25 cm layer of additive concrete sets. If two pumps are used in the application area, the first pump will pour the additive-added concrete while the second pump will complete the non-additive concrete and cold joint formation will be prevented. In cases where the concrete pouring is paused and postponed to the next day or days, in order to ensure impermeability in cold joint formations, a grout consisting of CORU ADMIX additive and cement mixture should be prepared and applied to the surface with a brush before pouring new concrete on these surfaces. By pouring the concrete while the grout is still wet, adherence is increased and the impermeability of the cold joint is also ensured. In curtain concretes, in cold joint points, bentonite/acrylic based swelling bands of appropriate sizes should be applied based on the curtain width and concrete class, to ensure continuity in impermeability. Rod holes in curtain concrete, points such as segregations caused by vibration should be filled and repaired with Restore grout and repair mortars.

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# *TECHNICAL SPECIFICATIONS*

Contents	Special blend of active chemical ingredients
Colour	Gray
Appearance	Dust
Mixture	With water
Intensity	1,04 gr/cm <sup>3</sup>
Application temperature	+5°C to +20°C

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# *STORAGE, PACKAGING, CONSUMPTION*

- It should be stored in its unopened original packaging, in a cool and dry environment, protected from frost.
  - In short-term storage, a maximum of 3 pallets should be stacked on top of each other and shipment should be made on a first-in, first-out basis.
  - Under proper storage conditions, it is 1 year from the date of production. Opened packages should be kept tightly closed under appropriate storage conditions and used within 1 week.
  - In long-term storage, pallets should not be placed on top of each other.
  - 15 kg polyethylene reinforced kraft bag
  - 3 kg/m<sup>3</sup>
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# *SECURITY PRECAUTIONS*

During application, work clothes, protective gloves, glasses and masks that comply with occupational and worker health rules must be used. Due to the irritating effects of uncured materials, components should not come into contact with the skin and eyes, in case of contact, wash immediately with plenty of soap and water, and if swallowed, seek medical attention immediately. Application areas must be ventilated and food and beverage materials must not be brought into the application areas. They must be stored out of reach of children.