



LIQUID, CRYSTALLIZED WATERPROOFING ADDITIVE FOR CONCRETE

Concrete admixture in liquid form that reacts with the chemicals in the concrete after it is mixed into the concrete and makes the concrete mass impermeable to water, thanks to the crystals it forms.



LIQUID
FORM



PROVIDES RESISTANCE
TO NEGATIVE
AND POSITIVE
LIQUID FORM



PROVIDES
WATER
IMPERMEABILITY

TECHNICAL SPECIFICATIONS

Chemical Structure	Light brown liquid
Density	~ 1,05 g/cm ³ (+0,1)
pH	11,00 (± %10)
Water Soluble Chlorine	<%0,01
Consumption	2% of the cement dosage (should not exceed 7 kg per 1 m ³ of concrete in each concrete class).

* All technical values are calculated at +23°C and 50% relative humidity.
Changes in temperature and humidity change the technical values.

ADVANTAGES

- Easy to apply.
- It can be applied in all weather conditions suitable for pouring concrete.
- Liquid. There is no risk of agglomeration when mixed with concrete.
- Fills cracks up to 0,5 mm in the concrete it is mixed with. In this way, it prevents water, moisture and sulphate from entering the concrete and protects the concrete and reinforcement from chemical and physical damages caused by sulfate attacks.
- Provides a permanent waterproofing.
- Does not prevent concrete from breathing.
- Resistant against high hydrostatic water pressure from negative and positive sides.
- Resistant to aggressive chemicals.
- Resistant to freezing and thawing cycles.
- Non-toxic. Can be used in potable water tanks.

APPLICATION AREAS

Used as waterproofing additive:

- Raft and bored pile foundations,
- Retaining walls, under foundation and curtain concrete walls,
- Elevator pits,
- Treatment plants, potable water and waste water tanks,
- Pools, cisterns, irrigation channels and concrete pipes,
- In subways, tunnels and underground parking lots,
- In precast concrete elements.

SURFACE AND APPLICATION CONDITIONS

- All weather conditions suitable for pouring concrete are suitable for application.



APPLICATION DETAILS

- The drum should be shaken well before application.
- BULDAmix CL 11 should be added to the mixing water during concrete production or just before concrete pouring, add 2% of the cement dosage in the concrete to the transit mixer and mix in the transit mixer at high speed until homogenous consistency is reached (approximately 5 minutes).
- The working time is about 50 minutes after it is added to the concrete.

WARNINGS

- Amount of water added to the concrete should be reduced by the amount of BULDAmix CL 11 added to the concrete.
- BULDAmix CL 11 consumption may vary depending on the cement dosage and admixtures in the concrete design.
- Mixture design and application techniques should be used to prevent voids and segregation in the concrete.
- Aggregate, chemical additives and cement type to be used during the design of concrete should be taken into consideration and necessary tests should be performed.
- Concrete should be poured in accordance with the standards.

CONSUMPTION

- 2% of the cement dosage (should not exceed 7 kg per 1 m³ of concrete in each concrete class).

EQUIPMENT CLEANING

- Equipment should be cleaned with soapy water immediately after use. Cured material can be cleaned with thinner.

STORAGE AND SHELF LIFE

- Should be stored in its unopened original packaging, in a closed, moisture-free, dry environment, protected from frost. Products should not be overloaded in a way to damage their packaging.
- Shelf life under appropriate storage conditions is 12 months from the date of production.

SAFETY PRECAUTIONS

- During use and storage, work clothes, protective gloves and masks should be used in accordance with the rules of Occupational and Labor Health. Eye, mouth and skin contact should be avoided and the contact area should be washed with plenty of water.
- In more dangerous situations or in case of ingestion of the product, a specialist doctor should be consulted immediately. Food and beverages should not be brought into the application areas. Keep out of the reach of children. For detailed information, the Safety Data Sheet (SDS) should be consulted.

PRODUCT LIABILITY

- Buld. A.Ş., is only responsible for the quality of BULD branded products. All data presented are the result of practical and scientific studies. The manufacturer cannot be held responsible except for the use of the correct products in appropriate areas and conditions.

LEGAL NOTES

- The information and recommendations for the use of BULD branded products are provided in good faith based on technical knowledge and BULDience, provided that they are maintained and handled under normal conditions and in accordance with the recommendations. Along with the products, the areas of use and surfaces may vary widely. It is necessary to ensure that the correct BULD branded products are applied on appropriate surfaces and under appropriate conditions. In addition, all information and instructions regarding commercial factors and technical conformity must be strictly followed. The manufacturer cannot be held responsible for any damages and problems that may occur if not complied with. The applicator/user is obliged to make the relevant checks to ensure these details. The specifications of BULD branded products may be changed when necessary. The property rights of third parties must be respected. When the order is confirmed, all existing technical conditions are essential for sales and transportation.x