



YAPI KİMYASALLARI SAN. VE TİC. LTD. ŞTİ.

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# BETTOSEAL CRYSTAL LIQUID

Liquid Crystalline waterproofing concrete admixture

## MATERIAL DESCRIPTION

BETTOSEAL CRYSTAL LIQUID is an admixture that fills the capillary spaces in concrete with the crystal structure it forms and makes it waterproof.

### AREAS OF USE

- Dams,
- Tunnels
- Water tanks,
- Foundations
- In water channels,
- Curtains
- Swimming pools,
- Foundation piles.

### ADVANTAGES

- Easy to use,
- Protects the reinforcement,
- Compatible with other concrete admixtures,
- It does not need to be protected.

### TECHNICAL SPECIFICATIONS

View	Brown liquid
Specific Gravity	1.15 g/cm <sup>3</sup> (200C)(± 1%)
pH	11 (± 1%)

Note: The above values were obtained at + 23 °C and 50% relative humidity.



## APPLICATION METHOD

It is recommended to add the additive on site. **BETTOSEAL CRYSTAL LIQUID** should be placed directly into the transit mixer and mixed at the highest speed for at least 5 minutes.

## DOSAGE

2% to 3% depending on the water/cement ratio of the concrete.  
It is not recommended for use in cases where the water/cement ratio is more than 0.55.

## COMPATIBILITY WITH OTHER ADDITIVES

**BETTOSEAL CRYSTAL LIQUID** can be used compatible with the following materials.

1. Used with all cement types
2. It is used with mineral additives such as micro silica, fly ash and slag where a high proportion of binder material is required.
3. Used in combination with air entraining additives to increase freeze - thaw resistance.
4. In combination with **BETTOLATEX**, shrinkage is prevented.
5. It is used together with synthetic and steel fibers against cracks caused by plastic shrinkage.
6. In environments with high temperature and intense air flow; in order to prevent the evaporation of the mixture water in the be- ton, the appropriate curing materials such as **BETTOCURE P**, **BETTOCURE ACR** are selected and used.

## PACKAGING

30 kg plastic drums  
200 kg barrels  
1000 kg IBC

## SHELF LIFE

12 months from the date of production under appropriate storage conditions. Opened packages can be resealed and used throughout their shelf life.

## STORAGE

It can be stored for a minimum of 12 months at ambient temperatures between 100-500°C.

## SECURITY MEASURES

During application, work clothes, protective gloves and goggles should be worn in accordance with Occupational Health and Safety rules. Avoid contact with skin and eyes during storage and application, in case of contact, wash immediately with plenty of water and soap, and in case of ingestion, consult a doctor immediately. Food and beverage products should not be brought into the application areas. It should be stored out of the reach of children. For detailed information, Material Safety Data Sheet should be consulted.

## RESPONSIBILITY

The data contained in this technical document are based on our scientific and practical knowledge. **BETTON Construction Chemicals San. ve Tic. Ltd. Şti.** is only responsible for the quality of the product. **BETTON Construction Chemicals San. ve Tic. Ltd. cannot be held responsible** for any consequences that may occur due to misuse and/or misuse other than the written recommendations on where and how to use the product. **Ltd. Şti.** cannot be held responsible.



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