

ADD-CRYSTAL CW Plus

Crystallized Waterproofing Concrete Additive

Technical Product Document

Date of Preparation : 11.10.2017

Revised :

PRODUCT DESCRIPTION

Main Usage

Add-Crystal CW Plus has a water resistant mechanism. It is active throughout the life of the concrete with its crystallized effect. It is an additive that provides impermeability and durability against water internally in portland cement based concrete and mortars.

Components

Add-Crystal CW Plus is a dry, free flowing material containing inorganic and organic chemical mixtures, sand and silica-based materials. Reactive substances react with the lime released by the reaction of cement and water. It fills the capillary gaps and makes concrete waterproof even under water pressure.

SPECIFICATIONS

- Prevents corrosion
- Provides resistance against internal and external water pressure
- Increases chemical resistance
- Does not affect pressure resistance and vapor transferability of the concrete
- Minimal effect on the drying and hardening time of the concrete
- Application is not affected by the weather conditions
- Simple application, saves time and labor force
- In dry powder form
- Can close cracks up to 0.5 mm by crystallizing
- Affordable

Limitations

It is recommended testing the characteristics of each concrete or mortar mix before using Add-Crystal CW Plus. It is important that the concrete must be produced in appropriate standards and the casting process must be completed properly.

Health and Safety

Add-Crystal CW Plus is an alkaline powder. Contact with eyes and skin should be avoided. Protective equipment should be used during application. Harmful if swallowed. Keep the product out of the reach of children. For industrial use only. See the product safety data sheet for additional information.

Packaging

Add-Crystal CW Plus comes in 20 kg craft bags or 20 kg buckets.

Mixing Ratio

Add-Crystal CW Plus is used according to the weight of cement material in the mixture. It's amount should be 2% of the weight of cement material in the mixture. For additional information about rates in special applications, in example for increased chemical resistance or special concrete mixes, consult Grada Yapi Kimyasallari A.S.

Storage and Transport

Add-Crystal CW Plus has a shelf life of 12 months when stored in dry environments and above 7 ° C temperature.

TECHNICAL INFORMATION

Chemical property:

Mix of organic and inorganic chemicals

Physical Form: *Flowing, gray powder*

Density *Approximately: 1.1 g/cm³*

Water pressure resistance: 14 bar

Mixing ratio: with water at the rate of ½ of the material

PREPARATION

There are additional information specific to each application in the Updated Application Instructions Manual and these instructions must be followed.

APPLICATION

Add-Crystal CW Plus should be added to the concrete or mortar mix during the time of blending. The process of adding the mixture varies depending on the mixing place and the material. For mixes at various mixing locations, please contact Grada Technical Service for additional information. When Add-Crystal CW Plus is mixed with concrete or mortar mix, it is essential that the resulting mix is homogeneous. Do not add Add-Crystal CW Plus as powder to wet concrete or mortar, as this may cause the mixture to not mix homogeneously and form lumps. In order to allow the Add-Crystal CW Plus to be evenly distributed in the mixture, the material can be added directly to the concrete mixing truck at the facility.

Crystal CW Plus can be provided from GRADA Construction Chemicals experts.



MAINTENANCE

It is not necessary.

WARRANTY

Twelve (12) months Product Warranty is available.

TECHNICAL SERVICE

Technical advice, details about end-use requirements and support for specific uses of Add-

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