

Conplast Crystalline

Integral waterproofing admixture based on crystalline formation to produce water tight concrete.

Uses

Conplast Crystalline is an integral waterproofing admixture to produce water tight concrete. The active chemical in Conplast Crystalline react with moisture available in concrete to produce non soluble crystalline formation throughout the pores of capillary tracks thus making concrete permanently sealed against water penetration from any direction.

Conplast Crystalline is developed to use in

- All types of concrete foundation below ground
- Water reservoir
- Tunnel Concreting
- Retaining walls and subways
- Water tank and Swimming pools
- Precast unit

Advantages

- Easy to use, require only mixing with concrete.
- Integral waterproofing system.
- Crack filling property with time up to 0.4mm width
- Exhibits good resistance to hydrostatic water pressure both surface
- Compatible with our full range of water reducing admixture
- Most effective due to formation of crystalline in tiny capillaries.
- Increase durability

Description

Conplast Crystalline is in powder form with perfect blend of Portland cement and other ingredients. Crystalline chemicals react with water in concrete to form crystals structure in the tiny capillaries. These insoluble crystals structure clogs the pores. This process continues until all the chemicals have reacted.

Technical Support

Fosroc offers a comprehensive range of high quality, high performance construction products. In addition Fosroc offers a world-wide technical support and on-site service to specifiers, end-users and contractors.

Typical properties

Data quoted is typical for this product but does not constitute a specification.

Appearance	: Grey powder
Bulk density	: 1400 kg/m ³
Workability Retention	: To be adjusted using water reducing and retarding admixture as required.
Compatible with cement	: Can be used with all cements including pozzolonic cements.
Permeability to water	: Has very low permeability compared to control concrete.

Dosage

The optimum dosage of Conplast Crystalline to meet specific requirement should always be determined by conducting laboratory and batch trials. However the normal dosage ranges between 1 to 2 percent by weight of total cement or binder content.

Instruction for Use

Compatibility

Conplast Crystalline is compatible with other Fosroc admixtures when used in the same concrete mix, but should be added to the mix separately. The resultant properties of mixes containing more than one admixture should be assessed by the trial mix procedure recommended on this data sheet. Conplast Crystalline is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and microsilica.

Dispensing

There are 2 recommendations to dispense Conplast Crystalline in concrete mixes:

At Batching Plant:

The optimized pre-weighted quantity of Conplast Crystalline must be added directly into the wet concrete at the time of mixing. And mix properly to achieve a homogenous mix

For Site Addition:

In order to obtain uniform distribution, each kg of Conplast Crystalline must be mixed with one litre of water to form thin slurry form. Then Conplast Crystalline slurry shall be dispensed into transit mixer and mixed well before pumping or placing. Make sure that water used for preparing slurry must be deducted from concrete total water to ensure designed water cement ratio. Consult with Fosroc technical department for additional information.

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Curing

As with all structural concrete, good curing practice should be maintained, particularly in situations where an overdose has occurred. Water spray, wet hessian or Concure 1315 / Concure WB spray applied curing membrane should be used.

Estimation

Packing

Conplast Crystalline packing 20 kg bags.

Storage

Conplast Crystalline has a minimum shelf life of 6 months provided the temperature is kept within range of 5°C and 50°C.

Precautions

Health and safety

Conplast Crystalline is alkaline and should not be swallowed or allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles. In case of contact with the skin, wash immediately with soap and water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting. For further information consult the Safety Data Sheet available for this product.

Fire

Conplast Crystalline is non-flammable.

Cleaning and disposal

For cleaning and disposal information refer to the Safety Data Sheet of the product

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Important note

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