



Integral Waterproofing Admixture Based on Crystalline Formation to Produce Water Tight Concrete

Product Description

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

Uses

BCI-CP is an integral waterproofing admixture to produce water tight concrete. The active chemical in BCI-CP 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.

BCI-CP is developed to use in

- All types of concrete foundation below ground
- Water reservoir
- Tunnel Concreting
- Retaining walls and subways
- Deck slab - Bridges, plinth and intermediate slab used for car parking
- 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.
- More effective due to formation of crystalline in tiny capillaries.
- Reduce Shrinkage and Creep
- Increase Durability
- Permeability Reducing Admixture as per ACI 212-36-10

Technical Properties

Appearance	Off White
Bulk density	1400Kg/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.
Setting time	: Confirm to IS 2645-2003 for initial and final.

Dosage

Recommended dosage of BCI-CP is 0.8% by weight of total cementitious content. The optimum dosage of BCI-CP to meet specific requirement should always be determined by conducting laboratory and batch trials.

Application Instructions

Compatibility

BCI-CP is compatible with our water reducing admixture 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.

BCI-CP is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and microsilica

Dispensing

The optimized quantity of BCI-CP must be added directly into the wet concrete at the time of mixing. For Ready Mix Plants, BCI-CP can be added at site and mixed to ensure uniform distribution throughout concrete mix.

In order to obtain uniform distribution, each kg of BCI-CP must be mixed with one litre of water to form thin slurry form. Then BCI-CP slurry shall be dispensed into transit mixer and mixed well before pumping or placing. Suggest not adding BCI-CP powder directly into concrete. Make sure that water used for preparing slurry must be deducted from concrete total water to ensure designed water cement ratio. Consult with Berryman technical department for additional information

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 BCI-CureCrete WB spray applied curing membrane should be used.



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Packaging

BCI-CP packing 30kg bags.

Shelf Life

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

Health & Safety

BCI-CP 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

BCI-CP is non-flammable

Cleaning and disposal

Spillages of BCI-CP should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Hose down remnants with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance.

BCI ADDITIVES INDIA LLP.

(Formerly : Berryman Chemical India Pvt. Ltd. Admixture Division)

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8th Main Road, 11th Cross,
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 www.bcia.in

Manufacturing Unit :

- Ⓐ Plot No.636, KIABD 2nd Phase, KIABD Industrial Area, Vasanthnarsapura,Tumkur-572128. Karnataka
- Ⓑ Goligram, Guskara Road, Near R.S. Rice Mill, Burdwan - 713 126. West Bengal.

Important: BCI Additives India LLP., products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, BCI Additives India LLP. does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.