



Product Description

BCI-AdCrete CL is unique chemical treatment for the water proofing, protection & improvement of concrete proportion. These active chemicals react with moisture in fresh concrete and with by-product of cement hydration to cause a catalytic reaction. This reaction generates a non soluble crystalline. It is based on a blend of Portland cement, processed silica sand and special proprietary chemicals. Formation throughout the pores and capillary tracts of concrete that permanently seals the concrete & prevents penetration of water.

Uses

BCI-AdCrete CL is used for

- Water Tanks, Reservoirs
- Building Basements & Foundations
- Swimming Pools and Water Parks
- Sewage and Water Treatment Plants
- Dams, Canals, Tunnels, Subway-systems
- Retaining Walls & Diaphragm Walls
- Building facade
- Precast structures

Advantages

- Resists water penetration either under hydrostatic pressure or capillary absorption
- Imparts integral water-tightness to structures
- Protects concrete structures against corrosion from Chloride and Carbonation attack.
- Permanently active - crystalline action is reactivated by contact with water
- Equally effective against both positive and negative water pressure or osmotic pressure
- Reduced sulphate attack
- Highly resistant to aggressive chemicals
- Powder - easy to use in pre-batched renders
- Low dosage - Economical

Technical Data

Form	Grey powder
Specific Gravity	1.16±0.02 g/cc
Chloride Ion Content	< 0.2%
Setting Time	Confirms to IS 2645-2003 for initial and final.

Mixing Instructions

Direction for use

BCI-AdCrete CL in the required dosage should be mixed with water and thoroughly disbursed the gauging before adding to the concrete. In transit or ready mixed concrete BCI-AdCrete CL has to be mixed with water and added to the mixer at the site, and mixed for about 2-3 minutes, at high speed for better dispersion and then pumped immediately.

Dry BCI-AdCrete CL powder should not be directly added to wet concrete unless mechanical continuous mixing is possible. In such situations the powder shall be mixed with water and poured into the concrete. The dosage of water in concrete shall be adjusted taking into account the water to be mixed with BCI-AdCrete CL.

Dosage

The standard dosage of BCI-AdCrete CL is 0.8-1.0% by weight of cement. The dosage rate may have to be increased in specific cases. The maximum dosage recommended is 3% by weight of cement. Trial should conducted in laboratory for workability, setting time and then arrive the dosage before using in batching plant.

Compatibility

BCI-AdCrete CL is compatible with all La AdCrete admixtures used in the production of quality concrete including normal, mid-range and high-range water-reducing admixtures, air-entraining, accelerators, retarders and corrosion inhibitors. BCI-AdCrete CL is also compatible with slag and pozzolans such as fly ash, silica fume & micro silica. Corrosivity – Non Chloride, Non Corrosive BCI-AdCrete CL will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, pre-stressed concrete or concrete placed on galvanized steel floor and roof systems. In all concrete application.

Workability

BCI-AdCrete CL has little or no effect on workability of concrete. Prior site trials are advised to assess the effect, and any increase or decrease in the workability can be adjusted by adjusting the admixture dosage or amount of water in use. It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates. The use of BCI-CureCrete WB, evaporation reducer to prevent quick moisture loss from the concrete is recommended.

Treatment to construction joints

Treat all the construction joints is essential and suitable products can be recommended depending on the type of structural joint.

Setting time and strength:

The setting time of concrete is affected by the chemical and physical composition of ingredients, temperature of concrete and climatic condition.

Concrete containing BCI-AdCrete Waterproof Admixtures may develop higher ultimate strength than plain concrete. Trail mixes should be carried out under project condition to determine setting time and strength of concrete.

Packaging : BCI-AdCrete CL is available in 230 kg pack.

Shelf Life : BCI-AdCrete CL must be stored where temp., do not drop below +5°C. Shelf life is 9 months when stored in above condition.

Health & Safety

BCI-AdCrete CL is non toxic. Any splashes should be washed off with water. If contact with eyes occurs, wash immediately with water and seek medical advice.

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.