



Product Description

BCI-Hi-Proof WL is a dark brown stable dispersion based on specially selected water reducer combined with Hydrophobic polymer which mixes readily with water and can be added into concrete during mixing.

BCI-Hi-Proof WL disperses cement particles to make concrete waterproof against hydrostatic head as well as capillary action between water and concrete. It improves cement mortar and concrete quality in terms of impermeability, water reduction, workability, mixed rheology, increase in strength and corrosion protection.

Standard

BCI-Hi-Proof WL Complies to IS:2645-2003 and IS:9103-1999

Uses

The addition of BCI-Hi-Proof WL to the mix will provide hydrophobic properties. The water insoluble ingredients acts as a non-wettable lining on the walls of all pores and voids in the mix. The BCI-Hi-Proof WL "built-in" water barriers guard against damage caused by water infiltration.

Improved Product Quality

Higher quality concrete will result from the use of BCI-Hi-Proof WL. The workability of mixes will be improved especially in low cement content concrete mixes. The protection of embedded steel and resistance to bacteria or fungus growth may also be increased by keeping the concrete drier.

Advantages

- Addition of BCI-Hi-Proof WL will reduce the amount of water that permeates through the concrete. Reducing the passage of water will provide beneficial advantages by;
- Increasing resistance to weathering
 - wetting and drying
 - freezing and thawing
- Increase resistance to chemical attack
- Reduce the potential for efflorescence
- Reduce the probability of corrosion of embedded metal

Coverage

Addition rate of BCI-Hi-Proof WL is 100ml/50kgs bag of cement. However, for higher impermeability depending upon the situation of the concreting, dosage can be increased

Package

BCI-Hi-Proof WL is available in 100ml, 1, 5, 20 & 200L Pack

Technical Properties

Specific Gravity	1.15 - 1.17g/cc
Non volatile content	33±0.05%
Chloride Content	Nil as per IS:2645-2003
Compatibility	Can be used with all types of cements including Pozzolanic but not High Alumina Cement
Permeability to water	Less than 15% as compared to 50% max. allowable under IS:2645 compared to control sample
Compressive Strength	Maintains compressive strength equal to control concrete or mortar and can even improve on strength property if full advantage of water reduction potential is utilised
Workability	Improves workability at reduced water cement ratio

Application Instructions

BCI-Hi-Proof WL is ideal for use with all sand/cement mortars where it is required to reduce permeability to a minimum. BCI-Hi-Proof WL is also recommended for all general mass concrete work due to harsh aggregates, difficulty of compaction or mix control, the risk of porosity and permeability must be minimised. Eg. Basements, bound walls, tanks, balcony, floor and roof slabs.

Precautions & Limitations

BCI-Hi-Proof WL system has a limited resistance to water permeability. To provide effective protection to the building, when used on concrete surfaces.

Shelf Life

If kept in cool dry place and in an unopened container a shelf life for 12 months could be expected

Health & Safety

BCI-Hi-Proof WL system is non-toxic but alkaline in nature. Gloves and goggles should be worn while handling. Any splashes on the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought.

Fire

BCI-Hi-Proof WL is non-toxic and non-inflammable does not cause any health hazard

BCI ADDITIVES INDIA LLP.

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

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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.