



## CX SUPERCONCRETE IWC+

Integral waterproofing liquid admixture for concrete and mortar

### Description :

- **CX SUPERCONCRETE IWC+** is a dark brown liquid based on lignosulphonates which mixes readily with water and therefore disperses evenly.
- **CX SUPERCONCRETE IWC+** waterproofs by improving the quality of the concrete or mortar.
- It reduces the water demand for required workability and minimizes segregation and bleeding.
- Thus it is more efficient compared to traditional power water proofers as its use results in two fold improvement of concrete or mortar.

### Uses:

- To minimize permeability and increase the waterproofing properties of concrete and cement sand mortars for critical applications like roof slabs and screeds, basements, external plastering, bathroom floors, water tanks, sumps, drains etc.

### Advantages:

- **Liquid admixture:** Instant and complete dispersion throughout the mix. Uniform waterproofing throughout concrete matrix.
- **High efficiency:** Dramatic reduction in permeability of concrete/ mortar
- **Improved workability:** Improves compaction of concrete and mortar, even where harsh sands or aggregates are used.
- **Improved concrete quality:** Minimizes porosity and honey combing. Produces dense homogenous concrete.

### Standards compliance:

- **CX SUPERCONCRETE IWC+** conforms to IS: 2645-2003.

### Properties:

- **Chloride content:** 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.
- **Setting Time:** No significant effect on setting time of concrete or mortar
- **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 utilized.
- **Workability:** Improves workability at reduced water cement ratio



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### Application instructions:

#### Mortar:

- **CX SUPERCONCRETE IWC+** is ideal for use with all sand/cement mortars where it is required to reduce permeability to a minimum.

#### Concrete:

- **CX SUPERCONCRETE IWC+** is recommended for all general mass concrete work where, due to harsh aggregates, difficulty of compaction or mix control, the risk of porosity and permeability must be minimized. E.g. Basements, bund walls, tanks, balcony, floor and roof slabs.

#### N.B.:

- The minimum dosage is 125ml and the maximum is 200ml per 50kgs of cement. If maximum dosage is used a minimum of 15% water should be reduced to ensure no loss in strength. Site trials shall be carried out to arrive at the optimum dosage.
- The required quantity of **CX SUPERCONCRETE IWC+** is measured and stir into the first or second bucket of water.
- **CX SUPERCONCRETE IWC+** water mixture shall be added to the concrete or mortar and mixed thoroughly. Mixing shall be continued and further water shall be added until the required workability is obtained.
- The total amount of water added per mix in the initial batches shall be maintained for the remaining batches.

#### Note:

- Mixes using **CX SUPERCONCRETE IWC+** will require much less water than normal mixes for the same workability. Water reduction may be as much as 15% or more.
- If the moisture content of the sand or aggregate changes i.e., it becomes wetter or dryer, and then the amount of water used must be reduced or increased to give the original workability.



## **CX SUPERCONCRETE IWC+**

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### **Packaging:**

- **CX SUPERCONCRETE IWC+** is supplied in 125gm, 1, 5, 20 and 200 kg containers.

### **Storage:**

- **CX SUPERCONCRETE IWC+** has a minimum shelf life of 12 months, if kept in a dry store in unopened containers.

### **Precautions:**

### **Health and Safety instructions:**

- **CX SUPERCONCRETE IWC+** is non-toxic. Any splashes on skin should be washed well with water.
- If contact with eyes occurs, it shall be washed well with plenty of water and medical advice sought immediately.

### **Fire:**

- **CX SUPERCONCRETE IWC+** is non-flammable.