

## **HI-PLAST CI**

**(Corrosion inhibiting admixture to inhibit the corrosion of steel reinforced concrete.)**

### **DESCRIPTION**

Hi Plast- CI is a specially formulated admixture based on Calcium nitrate added to concrete during the batching process. It is supplied as a pale straw-colored solution that instantly disperses in water. It chemically inhibits the corrosive action of chlorides on reinforcing steel and prestressed strands in concrete.

### **USES**

Hi Plast -CI is recommended for all steel-reinforced, post tensioned and prestressed concrete that will come in contact with chlorides from de-icing salts or a marine environment. It may also be used in concrete where chlorides are added.

### **ADVANTAGES**

Cost effective solution to the control of reinforcing steel chloride-induced corrosion.

Will Not affect workability or strength of concrete.

Can be used in conjunction with other admixtures.

Extends the service life of structures in a de-icing salt and marine environment.

### **PACKING**

Hi Plast-CI is available in 250 kg HDPE Barrels.

### **SAFETY**

During use, avoid contact with the skin and eyes. Wear protective gloves and eye protection when handling the product. Splashes on the skin should be removed with water. In case of contact with the eyes rinse with plenty of fresh water and seek medical advice.

### **TECHNICAL DATA**

Appearance	: Pale straw colour
Form	: Liquid
Specific Gravity	: 1.25 To 1.30
Chloride Content	: Nil

### **APPLICATION**

The dosage rate of Hi Plast-CI is normally 2 to 6% by weight of cement and it should be as determined in the concrete mix specification depending on the chloride ions expected at the surface of the steel with in the life expectancy of the concrete structure. The level of corrosion protection increases in proportion to the dosage.

It is compatible with other HIBOND admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by trial mixes to ensure the desired combination of effects is obtained.

The admixture should be added to the concrete with the mixing water to obtain the best results. As with all structural concrete, good curing practices should be maintained. Water spray, or a Hi-Cure spray applied curing membranes should be used.

### **SHELF LIFE**

Hi Plast-CI has a shelf life of 12 months in original, unopened container. Hi Plast-CI is an oxidizing agent and should be stored away from reducing agents and combustible materials.

### **STANDARD COMPLIANCE**

**HI PLAST CI** complies with **IS 9103 1999(2007)**

**This Product is Formulated and Labelled and Commercial use only**

For Best Results and Safest Usage, User is Specialty Directed to Consult.

Product Warranty: All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct, HI BOND warrants its products to be free of mfg. Defects and that, at the time and place of shipment, our material will meet current published physical properties when applied within HI BOND'S directions and tested in HI BOND'S standards. HI BOND'S facility is limited to replacement of material found to be defective. As HI BOND has no control over the use to which others may put its products. It is recommended that the product be tested to determine if suitable for a specific application and / or our information is valid in particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, applications and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.