

# ShaliPlast® CI

Bipolar Corrosion Inhibitor Admixture for Reinforcement Cement Concrete



## Description

**ShaliPlast® CI** is corrosion inhibitor, which protects steel bars imbedded in concrete through formation of protection layer around bars formed by migratory corrosion inhibitor. It can also be used in construction with any admixture being used at site.

## Approval / Standards

ASTM G 109, ASTM G3, ASTM G1, ASTM C 1582, JIS Z 1535

## Technical Characteristics @ 27°C, 55% RH

Colour	Brownish	Application Temperature, °C	5 - 45
pH	Minimum 6	Chloride Content	Nil
RCPT, Coulomb **	500 - 700	Density, gm / cc	1.04 - 1.08

\*\* Depends upon the grade of concrete

## Field of Application

- Used for concrete in contact with chlorides from a marine environment
- Effective in parking structures
- Marine structures
- Bridges
- Deicing salts

## Advantage

- Provides bi-polar corrosion inhibition by restricting both anodic and cathodic reactions on steel.
- Corrosion protection for embedded reinforcing steel, especially from chloride attack.
- Extends the service life of structures in a deicing salt and marine environment.

## Application Methodology

- Add **ShaliPlast® CI** to the dosing water or added with it in to the concrete mixer. It should not come into contact with dry cement. It may also be added to the concrete in the transit mixer at the point of discharge.
- **ShaliPlast® CI** is compatible with other admixture; however, each admixture should be added to the mix separately.
- When **ShaliPlast® CI** is used with an air entraining agent then the dosage rate of air entraining agent should be reduced. **ShaliPlast® CI** may react with the air entraining agent increasing its air producing efficiency.
- Compatible with all types of Portland cement including SRC (Sulphate Resistance Cement) and not compatible with high alumina cement.

## Dosing

0.4 - 2 % by weight of cement depending upon the depth of the rebar, concrete quality. Do not allow over dosing. Due to overdosing setting time will be extended rigorously. It is advisable to carry out a trial to establish the exact & optimal dosage rate depending upon set retardation required.

## Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

## Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- Avoid contact with skin/eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.

- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

### Cleaning & Disposal

- Spillages of **ShaliPlast® CI** should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water.
- The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

### Packing

Available in 20 L and 200 L drum.

### Storage

Store in a cool dry place, under shed, away from heat.

### Shelf Life

12 months in original unopened sealed condition.



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