

# ShaliPlast® IW CI

Integral Waterproofing-cum-Corrosion Inhibiting Admixture for RCC



STP Limited

## Description

**ShaliPlast® IW CI**, an additive for RCC concrete, is an integral liquid waterproofing compound which protects concrete internally from ingress of water as well as saves the reinforcement bars against chloride induced corrosion. The unique bi-polar compound migrates through concrete during curing process and puts a passive layer over the reinforcement bar.

## Approvals / Standards

It conforms the requirements of IS 2645:2003, IS 9103 and ASTM C 1582 / C 1582M - 11.

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

Colour	Brownish	Non-volatile Content, %	17 ± 1
Specific Gravity	1.06 ± 0.01	Chloride content, %	< 0.02
pH	8 - 13	Setting Time, minutes	40 - 550
Water Permeability, %	< 50 of control	Dosing* / 50 kg cement, ml (%)	200 to 600 (0.42 - 1.27)
Compressive Strength, MPa	Equal to control		

\*On the basis of cement, depending on the grade of RCC.

## Field of Application

- Bridges and Marine structures
- Used in RCC floors, walls and slabs
- Mass concrete casting making dyke walls
- Deicing areas

## Advantages

- Corrosion resistant & highly impermeable.
- Easily dispersible & compatible with RCC.
- High compressive strength.
- Reduces shrinkage crack development.
- Provides greater workability.
- Increases durability of concrete.

## Application Methodology

- Dry mix cement, sand, aggregate in concrete mixer for 2 minutes.
- Add 75 - 80% of required water into the mix and mix for 3 minutes.
- Add **ShaliPlast® IW CI** @ mentioned doses in remaining water and then wet mix for 2 minutes after adding such dosed water. A pre-trial is desired for dosing rate calculation.
- Place the RCC.
- Cure the applied RCC as per good construction practices.
- For Air entraining agent, a pre-blend trial must be done to decide the doses of air entraining agent as **ShaliPlast® IW CI** with air entraining agent increases air producing efficiency.
- **ShaliPlast® IW CI** is Compatible with all types of Portland cement including SRC (Sulphate Resistance Cement).
- **ShaliPlast® IW CI** is not compatible with high alumina cement.

## Dosing

- 200 ml (min.) to 600 ml (max.) per 50 kg bag of cement in case of preparation of concrete for RCC.
- Do not allow over dosing. Due to overdosing setting time may get be excessively extended.
- It is advisable to carry out a trial to establish the exact & optimal dosage rate depending upon set retardation required.
- A pre-trial is advised to set the mix design with other admixtures if 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 vapor.
- 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.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

## Cleaning & Disposal

- Spillages of **ShaliPlast® IW 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 1 L, 20 L and 200 L container.

## Storage

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

## Shelf Life

12 months in original unopened sealed condition.



**STP Limited**  
*Enhancing Structures' Life*

### Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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