

# ShaliPlast<sup>®</sup> LW++



Admixture-cum-Corrosion Inhibitor for Reinforced Cement Concrete

STP Limited

## Description

**ShaliPlast<sup>®</sup> LW++**, an additive for RCC concrete, is an integral liquid waterproofing compound consisting of surface active agents, plasticizer, polymer additives and corrosion inhibitor.

**ShaliPlast<sup>®</sup> LW++** is used as an additive for RCC to make concrete cohesive by reducing cement voids / capillaries.

**ShaliPlast<sup>®</sup> LW++** protects concrete from water ingress as well as saves the re-bars of reinforced concrete and mortar against chloride induced corrosion. The unique bi-polar compound migrates through concrete during curing process and puts a passive layer over re-bars to stop chloride corrosion.

**ShaliPlast LW++**, being an Admixture-cum-Corrosion Inhibitor, is designed for use in concrete as such. For any mix design where other water reducing admixture is already present, a compatibility study is suggested for such applications before going for bulk batch production of concrete.

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

## Characteristics

Colour	Brownish	Non-volatile Content, %	17 ± 1
Specific Gravity @ 30 °C	1.06 ± 0.01	Chloride content, %	< 0.02
pH	8 - 13	Setting Time, minutes	40 - 550
Water Permeability, %	< 50 of control	Dosage, ml / 50 kg cement	200
Compressive strength, Mpa	Equal to control		

## 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<sup>®</sup> LW++** @ 200 ml per 50 kg bag of cement in remaining water and then wet mix for 2 minutes after adding such dosed water.
- Place the RCC.
- Cure the applied RCC as per good construction practices.
- Alternatively, in case of repair, **ShaliPlast<sup>®</sup> LW++** may be sprayed over concrete @ 100 ml / m<sup>2</sup>, depending on porosity of surface.
- In case of small repairs, where spray application is not economical, application can be carried out by brush.

- For Air entraining agent, a pre-blend trial must be done to decide the doses of air entraining agent as **ShaliPlast® LW++** with air entraining agent increases air producing efficiency.
- **ShaliPlast® LW++** is Compatible with all types of Portland cement including SRC (Sulphate Resistance Cement)
- **ShaliPlast® LW++** is not compatible with high alumina cement.

### Dosing

- 200 ml per 50 kg bag of cement in case of preparation of concrete for RCC.
- 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.

### Health & Safety

- 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.
- 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.

### Packing

Available in 1 L, 20 L and 200 L container.

### Storage

Store in cool and dry place, under shed, away from heat within temperature 5 °C to 40 °C.

### 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



**Advisory Cell: +91 81302 81114**