

ShaliPlast[®] LW++



Admixture-cum-Corrosion Inhibitor For Reinforced Cement Concrete

STP Limited

Description

ShaliPlast[®] LW++, an additive for RCC concrete, is an integral liquid waterproofing compound consisting of surface active agents, plasticizer, polymer additives and corrosion inhibitor.

ShaliPlast[®] LW++ is used as an additive for RCC to make concrete cohesive by reducing cement voids / capillaries.

ShaliPlast[®] 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[®] 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.
- 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.
- Compatible with all types of Portland cement including SRC (Sulphate Resistance Cement)
- Not compatible with high alumina cement.

Dosing

- 200 ml per 50 kg bag of cement.
- 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 5 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.



	Product Range	
STP Limited <i>Enhancing Structures' Life</i>	■ Waterproofing & Insulation ■ Road Surfacing ■ Sealants & Adhesives ■ Pipeline Coatings ■ Protective/Anti-Corrosion Coatings ■ Epoxy and Flooring ■ Grouts and Admixtures (GARA) ■ RestoFix - Repair/Rehabilitation ■ Other Construction Chemicals	
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