

ShaliPlast® LW++



Admixture-cum-Corrosion Inhibitor For Reinforced Cement Concrete

STP Limited

Description

ShaliPlast® LW++ is an integral liquid waterproofing compound, which protects concrete internally 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. It is an additive for concrete, mortar and plasters. It contains additives and polymers, which makes the concrete cohesive and reduces capillaries.

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, IS 9103 and ASTM C 1582M.

Characteristics

Appearance	Light yellow free flowing liquid	Specific Gravity @ 30 °C	1.08 ± 0.02
pH	8 - 13	Water permeability	Pass
		Non Volatile, %	18 ± 1

Application

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

Advantages

- Corrosion resistant & highly impermeable.
- Easily dispersible & compatible with RCC.
- Highly compressive strength.
- Reduces shrinkage crack development.
- Provides greater workability.
- Increase 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++** in the ratio of 0.4% - 2% by weight of cement in remaining water and then wet mix for 2 minutes after adding such dosed water.
- Place the concrete or apply plaster, as needed.
- Cure the applied mortar or concrete 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) and not compatible with high alumina cement.

Dosing

0.4 – 2 % by weight 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.



Advisory Cell
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