

ShaliPlast[®] Shotcrete L



Liquid Set accelerating and Shotcreting Admixture

STP Limited

Description

ShaliPlast[®] Shotcrete L (formerly known as Shali SR- SC (SL)) is a silicate based, chloride free accelerator to be generally used as a quick setting and waterproofing compound for sprayed concrete. **ShaliPlast[®] Shotcrete L** enables spraying of concrete or mortar even on a wet surface, allows overhead spraying and reduces rebound. **ShaliPlast[®] Shotcrete L** is eco-friendly.

It conforms to specification prescribed in ASTM C – 1141 Type II Grade I Class A.

Characteristics

Typical Compressive Strength Age • 8 hrs • 1 day • 3 days	>5 MPa >14 MPa >23 Mpa	pH	10 – 11
		Specific Gravity	1.30 – 1.40
		Chloride Content	Nil
		Setting Time, minutes • Initial • Final	3 – 4 10 - 12
Colour	Colorless		

Applications

- Tunnel.
- Parking decks.
- Bridges structures.
- Pier and dock supports.
- Marine environments.
- Dams.
- Retaining walls.
- Manholes.
- Guniting projects.

Advantages

- Low rebound for shotcrete applications.
- Helps protect rebar from corrosion
- Low shrinkage properties
- Quick setting properties
- Easy overhead guniting
- Improved water tightness & reduced permeability.

Application Methodology

- In case of surface preparation, concrete to be shotcreted must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a bush hammer, sandblaster or jackhammer which will give a surface profile of a minimum 1/8" (3mm) and expose the coarse aggregate of the concrete. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.
- No bond coat is required for this product.
- In case of application Set up wet shotcreting equipment in an area convenient to the placement site. Add **ShaliPlast[®] Shotcrete L** directly to the gun near the tip of the shotcreting nozzle. Skilled nozzle operation and thorough mixing within the concrete are essential. The concrete workability must be adjusted to suit the spray equipment, its capacity, temperature and other local conditions.

Dosage

For layer thickness of up to about 20cm in one go, dosage is between 3% & 12% by weight of Cement. Actual dosage is to be finalised on the basis of site trials.

Precautions

- In adverse temperatures, follow ACI recommendations for hot/cold weather concreting practices.
- Setting time and hardening of cement paste varies with dose of **ShaliPlast Shotcrete L** with different quality as well as quantity of cement.
- Minimum application thickness 1.3 mm
- For optimum results, condition material to 18 – 29 °C
- Store product in dry place.
- Clean tools and equipment with water before the material hardens.

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 20 kg & 200 kg drum.

Storage

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

Shelf Life

9 months in original unopened 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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