

ShaliPlast[®] FS2



STP Limited

Plasticizing Accelerator for Concrete or Mortar

Description

ShaliPlast FS2 is a chloride-free, multipurpose concrete admixture designed to accelerate the normal setting time of concrete. It is used in plain concrete and mortar to give rapid strength development for early stripping of form-work. **ShaliPlast FS2** improves the plastic and hardened properties of concrete such as workability, compressive strength and flexural strengths.

Approvals / Standards

It conforms IS 9103 - 1999 and ASTM C 494.

Product Information

| | |
|-------------------------------|--|
| Form, Colour | Light Brown Liquid |
| Handling & Storage | The material must be stored in a shaded area with no exposure to sunlight and UV. The containers should be protected from all sources of heat and ignition. |
| Packaging | Available in 20 kg can and 200 kg barrel. |
| Shelf Life | 12 months when stored in unopened sealed conditions away from heat and sunlight at 5 to 38°C. |
| Handling Precautions | The material is non-hazardous, non-flammable and therefore can be disposed of in any regular disposal areas. In case of contact with human skin wash with any soft solvents. Seek medical assistance immediately in case of any allergy. |

Technical Characteristics at 27°C, 55% RH

| Property | Method | Result |
|-----------------------|----------------------|-------------------------------------|
| Density, gm / cc | Internal | 1.03 ± 0.03 |
| pH | Internal | 6 - 8 |
| Solubility | Internal | Freely soluble in water |
| Recommended dosage ** | Trial & Error | 0.40 to 1.6 L / 50 kg bag of cement |
| Setting Time | IS 8142 / ASTM C 403 | 45 - 60 minutes earlier |

**Since the rate of acceleration of setting of concrete depends on various factors like quality of cement, grading of aggregates, working temperatures etc., a preliminary trial under site conditions is essential to determine the exact proportion of ShaliPlast FS2 to be added to achieve maximum results.

Field of Application

ShaliPlast FS2 is used in concrete or mortar when faster development of strength is required like:

- Concrete Blocks / Pipes
- Stepping stones
- Lintels
- Precast concrete for manhole cover and electric pole

Advantages

- Excellent during winter working.
- Reduces initial set.
- Enables earlier release of form work.
- Provides high early strength for fast form stripping.
- Reduces the water content of concrete or mortar without loss of workability.
- Minimizes bleeding and segregation.

Application Information

- **ShaliPlast FS2** can be used with most types of normal cements. The addition of **ShaliPlast FS2** should be done in the course of mixing operation of concrete by means of suitable dosing devices. It can also be added to the gauging water.
- **ShaliPlast FS2** is compatible with other STP Admixtures and this synergistic effect of the product can be put to multiple uses to get desired end results.

Precautions

- Keep gauging water to a minimum.
- Do not use frozen aggregates.
- Ensure that **ShaliPlast FS2** is not added directly to dry cement.
- Areas to be concreted should be free from ice.
- **ShaliPlast FS2** should not be used in prestressed concrete with High Alumina or sulphate resisting cement and also with steam curing.
- The rules laid down by concerned authorities for concreting in cold weather, should be strictly adhered to.

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 & Safety

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**.

- **ShaliPlast FS2** does not fall into the hazard classifications of current regulations. However, try to avoid contact with skin / eyes.
- 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.

Cleaning & Disposal

- Clean all tools immediately after use with water.
- Spillages of **ShaliPlast FS2** 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.



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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