

ShaliPlast ZS



Poly-Carboxylated Ether Based Admixture for Zero Slump and Slip-Form Concrete **STP Limited**

Description

ShaliPlast® ZS is a poly-carboxylated ether-based superplasticizer which has been specifically designed for low to zero slump concrete. Its unique formulation increases the robustness of concrete in regard of moisture content while allowing for superior compaction. It greatly facilitates the extrusion process while improving the overall appearance of the concrete surfaces.

Approvals / Standards

It conforms to IS:9103-1999.

Product Information

| | |
|---------------------------------|---|
| Colour & Form | Brown liquid |
| Packaging | Available in 225 kg barrel. |
| Shelf Life & Storage | 1 year when stored in dry warehouse conditions between 5 - 27°C. Store at above 5°C. If frozen, thaw and agitate thoroughly to return to normal state. Protect from direct sunlight. Avoid physical damage to containers. Do not use pressurized air for agitation. |
| Handling Precautions | As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. Keep away from children and animals. After opening the seal, always consume total material. FOR INDUSTRIAL USE ONLY. |

Technical Characteristics at 27°C, 55% RH

| Parameter | Typical Value |
|---------------------|---------------|
| pH | 6 - 8.5 |
| Specific gravity | 1.05 ± 0.04 |
| Chloride content | Nil |
| Sulphite content | Nil |
| Nitrate content | Nil |
| Thiocyanate content | Nil |

Field of Application

ShaliPlast ZS is especially suitable for the production of concrete mixes which require high water reduction.

- Precast-concrete
- High workable concrete
- Fast track concrete
- Paving blocks production

Advantages

- No chlorides
- Non-corrosive
- Improved surface finish
- Reduces shrinkage
- Improves strength
- Decreases Machine Feed Time
- Low Dosage vs. Traditional Admixtures

Application Methodology

Dosages: 0.5 - 2 % by weight of cementitious material

- **ShaliPlast ZS** is completely miscible in water and should be preferably added to the mixing water or directly in the mixer along with the tail water.
- Water content must be determined according to the workability & compressive strengths required.
- It is suggested that trial batches be conducted in order to determine the required dosage for optimum performance with your concrete components.
- **ShaliPlast ZS** can be dispensed prior to or with the total batched water. **ShaliPlast ZS** is compatible with other STP Limited admixtures. However, each admixture should be added separately to the mix.

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 and Safety information

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**.

- 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.

Cleaning & Maintenance

- Use personal protective equipment (chemical resistant goggles/gloves/clothing). Without direct contact, remove spilled or excess product and place in suitable sealed container.
- Dispose of excess product and container in accordance with applicable environmental regulations.



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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