

# ShaliPlast<sup>®</sup> HP

High Range Water Reducing Additive



STP Limited

## Description

**ShaliPlast<sup>®</sup> HP** (formerly known as ShaliCon 37) is a high range admixture, being additives for cement, mortar or concrete for water reducing modified Naphthalene sulphonate product. It may be added to the concrete at the job site or at the ready mix concrete plant. No chloride is used in its formulation, consequently, it is recommended for pre-stressed concrete. It produces self compacting concrete and can also be used to produce water-proofed concrete.

It conforms to specification prescribed in IS 9103 & ASTM C - 494 Type A & F.

## Characteristics

Colour	Amber Brown	Specific Gravity	1.15 ± 0.02
pH	7 – 8	Chloride	Nil

## Application

- High performance concrete
- Highly slump, flowable concrete
- Ready mix concrete
- Heavily reinforced concrete
- Pumping concrete

## Advantages

- Produces low water cement ratio
- Aids in concrete placement and reduces labour cost.
- Substantial improvement in workability without increased water or the risk of segregation.
- Remarkable increase in both early and ultimate strengths.
- Improved durability, density and impermeability with better surface finish.
- Produces dense concrete and hence improves waterproofing characteristics.
- Chloride free

## Application Methodology

- Add **ShaliPlast<sup>®</sup> HP** to the dosing water. It should not come into contact with dry cement.
- Charge all concrete material in the proper order into the mixer with about 70% of the mixing water and mix for three minutes. Add rest quantity of water with admixture to obtain the required slump and mix for three additional minutes.
- **ShaliPlast<sup>®</sup> HP** is compatible with other admixture; however each admixture should be added to the mix separately.
- When **ShaliPlast<sup>®</sup> HP** is used with an air entraining agent then the dosage rate of air entraining agent should be reduced. **ShaliPlast<sup>®</sup> HP** may react with the air entraining agent increasing its air producing efficiency.
- Compatible with all types of Portland cement including SRC (Sulphate Resistance Cement) and not compatible with high alumina cement.

## Dosage

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

- **ShaliPlast® HP** is non-toxic.
- 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.

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