



HS Power Plasticizer

Hi-Performance Multipurpose Admixture

Features & Benefits

HS Power Plasticizer

provides the following beneficial properties:

- Substantial improvement in workability without increased water
- Controlled extension of setting time coupled with good workability retention.
- Improves the density and surface finish
- Improves water tightness due to substantial water reduction. Enhances impermeability of water into reinforced structure
- Compatible with all types of cement inclusive of PPC, PSC & SRC.
- Chloride Free, does not attack the reinforcement. Rather it passivates the reinforcement providing corrosion inhibition in the concrete structure
- Makes the concrete more uniform, hence prevents the risk of bleeding & segregation.
- Based on the dosage minor increment in setting time with respect to that of Control
- It is a cost-effective compound as compare to other waterproofing materials
- Eliminates crack development in concrete there by reducing shrinkage
- Small dosage and is very convenient to handle.

Product Description

A highly effective specially formulated water reducing polymer modified multifunction superplasticizer for concrete with controlled extension of workability and setting time . It consist special additives with polymer which impart compatibility of various cement , concrete rheology , corrosion inhibition, substantial reduction of water demand and thereby densifying the concrete to make water impermeable, increasing the concrete strength and preventing the segregation and pumpable concrete.

Complies with IS 9103 -99, ASTM C494/C494M-99a , Type D, IS 2645

Recommended Use

HS Power Plasticizer is used wherever high quality structural concrete is needed. It's plasticizing and multifunctional property can be utilized in:

- Floor & roof slabs foundation
- Slender components with congested re-inforcement
- Columns, pavements, other structural and nonstructural parts
- Beams & ceilings
- Pumping concrete
- Specially recommended for the following types of concrete: Ready mix concrete. Site batched concrete etc.
- Plaster & Mortar

Technical Data

Basis



Modified Polycarboxylated co-polymer

Appearance



Brown liquid

Specific Gravity



Around 1.04 at 27°C

pH



≥ 6.0

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Packs



Barrel/IBC/Tanker: 50 KG, 210 KG HDPE barrel ;
1000 KG IBC or Tanker supply.

RETAIL Packs: 200 ml, 1 L, 5 L, 10 L, 20 L

Shelf Life/Storage



In unopened, undamaged original container, protected from direct sunlight and frost at temperatures At +10°C to +40°C, shelf life is at-least 1 year from the date of manufacture. It is always advised to keep the materials away from direct sunlight for a prolonged period of time beyond 4 months.

Dosage:

0.2 - 1 % by weight of cement or binder

Grade of Concrete	Dosage / bag of 50 Kg cement
Plaster	100 ml to 200 ml
M20	200 ml
M25	200-250 ml
M30	250-350 ml
M35 onwards	As per requirement

*This is indicative dosage only. Actual dosage may alter based on workability criteria.

Addition:

HS Power Plasticizer is added to the cement-aggregate-sand mix at the batching plant after the gauging water and necessary corrections. Do not add to the dry mix.

Method of Application:



Charge aggregates, sand and cement to the concrete mixer as per the mix design. Mix 1-2 minutes in dry condition.



Start addition of water into the mix up to 80% of the total quantity & mix for 3-4 minutes.



HS Power Plasticizer is to be added as per the recommended dosage into the remaining gauging water, then add to the mixer & mix for another 2-3 minutes.

Discharge the concrete for application.

Safety Instructions :

Safety Precautions

Accidental splashes onto skin must be washed off with water and soap . In contact with eyes or mucous membrane , rinse with clean warm water and seek medical attention without delay.

Ecology

Do not dispose of into water or soil , but it is advisable to do it as per local regulations.

Toxicity

Non-toxic under the relevant local health & safety codes

Transport

Non hazardous .