

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

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
- Walls , columns, pavements, other structural and nonstructural parts
- Beams & ceilings
- Pumping concrete and tunnel linings
- Specially recommended for the following types of concrete: Ready mix concrete, Pre cast concrete Pre stressed concrete, Site batched concrete etc.

Technical Data

Basls



Modified Polycarboxylated co-polymer

Appearance



Brown liquid

Specific Gravity



Around 1.04 at 27°C

pH



≥ 6.0

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Packs



20kg & 200 Kg HDPE barrel,
1000 Kg IBC, or Tanker supply .

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 - 0.6 % by weight of cement or binder . The effect is dependant on the cement/binder type , quality and gradation of the aggregates and ambient climatic condition . Hence , it is always advisable to carry out the trial mixes for fixation of the optimum dosage rate to meet the requirement. In case of accidental overdose , extension of setting time is expected and it is always advisable to protect the concrete from premature drying with a suitable cover.

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 .

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