

High performance water reducing and Super plasticising admixture

Uses

- To produce pumpable concrete
- To produce high strength, high grade concrete by substantial reduction in water resulting in low permeability and high early strength.
- To produce high workability concrete requiring little or no vibration during placing.
- Suitable for Chimney and cooling tower construction having slip-forming methodology. It provides full compaction around the reinforcement with excellent surface finish.

Advantages

- Improved workability - Easier, quicker placing and compaction.
- Increased strength - Provides high early strength for precast concrete if water reduction is taken advantage of.
- Improved quality - Denser, close textured concrete with reduced porosity and hence more durable.
- Higher cohesion - Risk of segregation and bleeding minimised; thus aids pumping of concrete
- Chloride free - Safe in prestressed concrete and with sulphate resisting cements and marine aggregates.

Standards

Conplast SP550 complies with IS:9103 :1999(2007) and conforms to ASTM-C-494 Type 'G'.

Description

Conplast SP550 is based on Sulphonated Naphthalene Polymers and is supplied as a brown liquid instantly dispersible in water.

Conplast SP550 has been specially formulated to give higher water reductions without loss of workability or to produce high quality concrete of reduced permeability.

Properties

Specific gravity	1.23 ± .02 *
pH at 27°C	Min 6.0 *
Chloride content	Nil. as per IS:456 *

* The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific customer requirements and mix design. Please refer our MTC issued for specific product configuration for measuring our product parameters that will be constantly and consistently administered.

Compatibility: Can be used with all types of cements except high alumina cement. Conplast SP550 is Compatible with other types of Fosroc admixtures when added separately to the mix. Site trials should be carried out to optimise dosages.

Workability: Can be used to produce flowing concrete that requires no compaction. Some minor adjustments may be required to produce high workable mix without segregation

Cohesion: Cohesion is improved due to dispersion of cement particles thus minimising segregation and improving surface finish.

Compressive strength: Early strength will increase if water reduction is taken advantage of. Generally, there is improvement in strength depending upon W/C ratio and other mix parameters.

Durability: Reduction in W/C ratio enables increase in density and impermeability thus enhancing durability of concrete.

Application instructions

Dosage

Trials need to be carried out at site to determine the exact dosage of the admixture for the particular mix design and materials. However for normal grades of concrete a dosage from 0.8% - 1.2% by weight of cementitious material is recommended. The dosage may be increased to 1.5% to achieve specific slump requirements without retardation by conducting site trials.

Use at other dosages

Dosages outside the typical ranges quoted above can be used to meet particular requirements. Contact Fosroc for advice.

Overdosage

An overdose of above the recommended level of admixture may result in high workability, slight increase in air entrainment and retardation of setting time. The ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete if properly placed and cured.

Dispensing

The measured quantity of Conplast SP550 should be added along with the gauging water. For best results, add Conplast SP550 in the last phase after pre wetting the mix with 80% of the total water required.

Mix design

Fosroc has an advisory service on Concrete Mix Design and can be contacted if assistance is required.

Conplast SP550



Estimating

Packing

Conplast SP550 is supplied in 250 Kg drums or bulk

Storage

Conplast SP550 has a minimum shelf life of 12 months when stored under normal temperatures. It should be protected from extreme temperatures and preferably stored in shade.

Precautions

Health & Safety

Conplast SP550 is non-toxic. Any splashes on the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

Fire

Conplast SP550 is non flammable.



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