Conplast SP430 DIS

FOSROC constructive solutions

Superplasticising Admixture

Uses

- To produce pumpable concrete
- To produce concrete substantial reduction in water resulting in low permeability and high early strength.
- To produce high workability concrete requiring little or no vibration during placing.

Advantages

- Improved workability - Easier, quicker placing and compaction.
- Increased strength - Provides high early strength for precast concrete with the advantage of higher water reduction ability.
- 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 compliance

Conplast SP430 DIS complies with IS:9103 , BS:5075 and ASTM-C-494 Type 'A' and Type 'G' depending on the dosages.

Description

Conplast SP430DIS is based on Sulphonated Napthalene Polymers and supplied as a brown liquid instantly dispersible in water.

Conplast SP430DIS has been specially formulated to give high water reductions without loss of workability or to produce high quality concrete of reduced permeability

Properties

Specific gravity	:	1.2 ± 0.02 *
Chloride content	:	Nil (As per BS 5075 part I)
Air entrainment	:	As per IS 9103

* 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 SP430 DIS is compatible with other types of Fosroc admixtures when added seperately 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 : Conplast SP430DIS is primarily an efficient superplasticiser giving large increase in work-ability without significant changes in compressive strength . It may be used to produce substantial water reduction resulting in a considerable increase in compressive strength

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

Application instructions

Dosage

The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain or cement reduction to be measured. Site trials with Conplast SP430 DIS should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 0.5 - 2 kg /100 kg cement.

Over dosing

An over dose of double the recommended amount of Conplast SP430 DIS, will result in very high workability and some retardation of setting time will occur. However, the ultimate compressive strength will not be impaired.

Dispensing

The measured quantity of Conplast SP430 DIS should be added along with the gauging water. For best results, add Conplast SP430 DIS superplasticiser in the last phase after prewetting the mix with 80% of the total water required.

Mix design

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

Conplast SP430 DIS

Estimating

Packing

Conplast SP430 DIS is supplied in 5, 20 and 200 litre drums.

Storage

Conplast SP430 DIS 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 and Safety instructions

Conplast SP430 DIS is non-toxic. Any splashes on the skin should be washed immediately with water. Splashes on the eyes should be washed immediately with water and medical advice should be sought.For further information refer the Safety Data sheet.

Fire

Conplast SP430 DIS is non flammable.

Additional information

The Fosroc range of associated products include high strength cementitious, epoxy grout, polyester resin based mortar for rapid pre-setting of steel shims to level or for direct bedding of small base plates; Resin anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz., admixtures, curing release agents, flooring systems and repair mortars.

Separate datasheets are available on these products

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