

Modified polymer based, high range water reducing and retarding concrete admixture.

Uses

- To produce pumpable concrete
- To produce high strength 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.

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 SP439 conforms to IS:9103:1999 (2007).

Description

Conplast SP439 is based on modified Polymers and supplied as a brown liquid instantly dispersible in water.

Conplast SP439 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	1.22 to 1.24*	
Chloride content	Nil to IS:456	
Air entrainment	Approx.1% additional air is en- trained	
Compatability	Can be used with all types of cements except high alumina ce- ment. Conplast SP439 is compat- ible with other types of Fosroc admixtures when added separate- ly to the mix. Site trials should be carried out to optimise dosages. Conplast SP439 is compatible with all SCM such as cement and flyash.	
Workability	Can be used to produce flowing concrete that requires no compac- tion. Some minor adjustments may be required to produce high workable mix without segregation.	

Cohesion	Cohesion is improved due to dis- persion of cement particles thus minimising segregation and im- proving surface finish.
Compressive strength	Generally, there will be improve- ment in early strength if water is reduced in the mix compared to control concrete.
Durability	Reduction in W/C ratio enables increase in density and imperme- ability thus enhancing durability of concrete.

* 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

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 SP439 should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 0.5 - 2.0 litres /100 kg cement.

Over dosing

An over dose of double the recommended amount of Conplast SP439, 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 SP439 should be added along with the gauging water. For best results, add Conplast SP439 superplasticiser in the last phase after prewetting the mix with 80% of the total water required.

Conplast SP439

Mix design

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

Estimating

Packing

Conplast SP439 is supplied in 250kg drums and Bulk.

Storage

Conplast SP439 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 SP439 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 SP439 is non flammable.



Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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Additional information

The Fosroc range of associated products include high strength cementitious, epoxy grout, polyester resin based mortar for rapid presetting 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 compounds, release agents, flooring systems and repair mortars.

Separate datasheets are available on these products.