

## High range water reducing 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 SP430 BIS conforms to IS:9103:1999 (2007).

### Description

Conplast SP430 BIS is based on Sulphonated Napthalene Polymers and supplied as a brown liquid instantly dispersible in water.

Conplast SP430 BIS 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	: 1.25 to 1.27
Chloride content	: Nil to IS:456
Air entrainment	: Approx. 1% additional air is entrained
Compatibility	: Can be used with all types of cements except high alumina cement. Conplast SP430 BIS 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** : Generally, there will be improvement 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 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 BIS 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 SP430 BIS, 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 BIS should be added along with the gauging water. For best results, add Conplast SP430 BIS 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.

#### Estimating

#### Packing

Conplast SP430 BIS is supplied in 250kg drums and Bulk.

#### Storage

Conplast SP430 BIS 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 BIS 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.

# Conplast SP430 BIS

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## Fire

Conplast SP430 BIS is non flammable.

## 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.

## 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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