

## High range water reducing, superplasticising and slump retaining 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.

### 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 SP600 complies with IS:9103:1999 and BS:5075 Part 3 .Conplast SP600 conforms to ASTM-C-494 Type 'D' and Type 'G' depending on the dosages used.

### Description

Conplast SP600 is a blend of organic polymers and is supplied as a brown liquid instantly dispersible in water.

Conplast SP600 has been specially formulated to give high water reductions upto 25% without loss of workability or to produce high quality concrete of reduced permeability.

### Properties

Specific gravity	1.175 to 1.205 *
pH at 27°C	Min 6.0 *
Chloride content	Nil. as per IS:456 and BS:5075*
Air entrainment	Approx. 1% additional air is entrained

\* 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 SP600 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 is increased upto 40 to 50% if water reduction is taken advantage of. Generally, there is improvement in strength upto 20% 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 optimise the dosage of the admixture for the particular mix design and materials. However as a guide the rate of addition is generally in the range of 0.5% to 1.0% by weight of cement for normal grades of concrete.

### 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 SP600 should be added along with the gauging water. For best results, add Conplast SP600 in the last phase after prewetting 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 SP600

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## Estimating

### Packing

Conplast SP600 is supplied in 250 Kg drums or bulk.

### Storage

Conplast SP600 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 SP600 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 SP600 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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