



# Conplast® SP423

## High performance Superplasticiser

### Uses

- Gives increased working life to fresh concrete.
- Increase workability without extra water reducing placing time and costs.
- Improves cohesion, minimising segregation and improving surface finish.
- Aids pumping by improving cohesion and reducing workability loss.
- Allows a reduction in watercement ratio, enhancing durability by producing low permeability concrete with reduced shrinkage cracking potential.
- Chloride free, safe for use in prestressed and reinforced concrete.
- Can be used with concrete containing microsilica and other cement replacements.

### Standards compliance

Conplast SP423 complies with BS 5075 Part 3, IS 9103-99 and ASTM C494 as Type G.

### Description

Conplast SP423 is a chloride free high performance admixture based on selected organic polymers. It is supplied as a brown solution which instantly disperses in water.

Conplast SP423 disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively. The increased workability and cohesion leads to high performance concrete.

### Technical support

Fosroc provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

### Dosage

The optimum dosage of Conplast SP423 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is 0.5 to 2.0 litres/100 kg of cementitious material, including PFA, GGBFS and microsilica.

### Use at other dosages

Dosages outside the typical range quoted above may be used if necessary and suitable to meet particular mix requirements. Contact Fosroc for advice in these cases.

### Properties

**Appearance** : Brown liquid

**Specific gravity** : 1.18 - 1.20 at 27°C

**Chloride content** : Nil. as per IS:456 & BS:5075.

**Air entrainment** : Approx. 1% additional air is entrained

### Instructions for use

#### Mix design for workability retention

The mix design should be one suitable for use as a pump mix. To obtain the best results for workability retention, the initial workability should be above 150 mm slump. The retardation and improved cohesion provided by Conplast SP423 then act to enhance the workability retention characteristics. Advice on mix design for flowing concrete is available from Fosroc.

In correctly designed flowing concrete, the improved dispersion of the cement particles and the more efficient use of mixing water will improve mix cohesion. The improved cohesion obtained with Conplast SP423 will also help to minimise bleed and segregation. After initial trials, minor modifications to the mix design may be made to optimise performance.

#### Compatibility

Conplast SP423 is compatible with other Fosroc admixture used in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by the trial mixes.

Conplast SP423 is suitable for use with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and microsilica.

#### Dispensing

The correct quantity of Conplast SP423 should be measured by means of a recommended dispenser. Normally, the admixture should then be added to the concrete with the mixing water to obtain the best results. Contact Fosroc for advice regarding suitable equipment and its installation.

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## Effects of overdosing

An overdose of double the recommended amount of Conplast SP423 will result in very high workability and some retardation of setting time will occur. However, the ultimate compressive strength will not be affected.

## Estimating

## Packaging

Conplast SP423 is available in drum and bulk supply. For larger users, storage tanks can be supplied.

## Storage

Conplast SP423 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C. Should the temperature of the product fall outside this range contact Fosroc for advice.

**Freezing point** : Approximately - 4°C.

## Precautions

## Health and Safety

Conplast SP423 does not fall into the hazardous chemicals list. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn.

Splashes on the skin should be removed with water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

For further information consult the Material Safety Data Sheet available for this product.

## Fire

Conplast SP423 is water based and non-flammable

## Cleaning and disposal

Spillages of Conplast SP423 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

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### 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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