



# Conplast SP495\*

## Superior high range water reducer for high quality rheoplastic concrete and hydration control

### Uses

- Specifically developed for use in high quality concrete for workability retention at low water content
- Specially formulated for concrete with supplementary cementitious materials like GGBS, Microsilica, fly ash.
- Provides good pumpable concrete
- Recommended for piling and mass concrete pours with improved cohesion and temperature control

### Advantages

- High range water reducing property allows the production of high quality concrete without excessive cement contents – ensures improved durability
- Acts as a highly effective hydration control admixture especially blended concrete
- Higher workability levels are maintained for long than sulphated melamine and naphthalene admixture
- Better rheological properties for concrete made with double or triple blends without abnormal retardation.
- Improved cohesion and particle dispersion minimises segregation and bleeding and improves pumpability.
- Chloride free, safe for use in pre-cast, pre-stressed and reinforced concrete.

### Standard Compliance

Conplast SP495 complies with ASTM C494, Type G and BSEN 934 – 2 -1998.

### Description

Conplast SP495 is a chloride free, super-plasticising admixture based on selected polymer modified naphthalene sulphonate dispersive.

Conplast SP495 disperse by electro kinetic action in the concrete mix, enabling the water phase of the concrete to perform more effectively.

### Technical Support

Fosroc offers a comprehensive range of high performance, high quality flooring, jointing and repair products from both new and existing floor surfaces. In addition, Fosroc also offers a technical support package to specifiers, end- users and contractors, as well as on-site technical assistance in locations all over the world.

### Properties

<b>Appearance</b>	:	Brown Liquid
<b>Specific Gravity</b>	:	Typically 1.23 at 20°C
<b>pH Value (ISO 4316)</b>	:	7.5
<b>Chloride Content</b>	:	Nil to BS 5075
<b>Air entrainment</b>	:	Typically less than 2% additional air is entrained at normal dosages

### Instructions for use

#### Mix Design

Where the main requirement is to improve strengths, initial trials should be made with normal concrete mix designs. The addition of the admixture will allow the removal of water from the mix whilst maintaining workability to the overall mix design may be made to optimise performance.

#### Compatibility

Conplast SP495 is compatible with other Fosroc admixtures 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 trail mixes.

Conplast SP495 is suitable for use with all types of Portland cements and cement replacement materials such as PFA, GGBFS and microsilica.

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## Dispensing

The correct quantity of Conplast SP495 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. Conplast SP495 is not recommended to be added in dry aggregates or cement. It should always be added in wet mix conditions. Full blending of the admixture and concrete should be ensured by mixing at high speed for a period of at least two minutes.

Contact Fosroc for advice regarding suitable equipment and its installation.

## Typical Dosage

The optimum dosage of Conplast SP495 to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use.

For normal concrete, a dosage between 0.75% and 1.5% by weight of cement may be used, and for high strength concrete, dosage between 1.5% to 3.0% by weight of cement may be used.

## Use at other dosage

Dosages outside the typical ranges quoted above can be used to meet particular requirements, contact Fosroc for advice.

## Effects of overdosing

An overdose of double the amount of Conplast SP495 will result in an increase in retardation. Provided that adequate curing is maintained, the ultimate strength to the concrete will be increased. The effects of overdosing will be further increased if sulphate resisting cement or cement replacement materials are used.

Overdosage may also cause increased air entrainment, which will tend to reduce strength. The degree of this effect will depend on the particular mix design and overdose level.

## Cleaning and disposal

Spillages of Conplast SP495 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.

## Estimating

### Supply

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<b>Conplast SP495 :</b>	210 litre drum or bulk supply
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## Storage

Conplast SP495 should be re-circulated once a day for 10 minutes and 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 falls outside this range, contact Fosroc for advice.

**Freezing point :** Approximately -2°C

## Precautions

### Health & safety

Conplast SP495 does not fall into the hazard classifications of current regulations (see notes 1 & 2 below). However, it should not be 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 Datasheet available for this product.

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## Fire

Conplast SP495 is water based and non- flammable.

## Additional Information

Note 1: CPL Regulations 1984 Supply – Schedule 1

Note 2: HSE Publication Guidance Note EH40

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† See separate datasheet



### Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of 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 of information given by it.

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