



# Conplast® P505(T)

## High performance water reducing admixture

### Uses

- To improve the effectiveness of the water content of a concrete mix
- At higher dosages to provide cost effective means of reducing concrete permeability and thereby reducing water penetration

### Advantages

- Allows specified strength grades to be met at reduced cement content or increased workability
- Water reduction significantly improves compressive strength at all ages and enhances durability through the production of low permeability concrete
- Minimises the risk of segregation and bleeding and assists in the production of a dense, close textured surface, improving durability.
- Chloride free, safe for use in prestresses and reinforced concrete
- Allows workability to be increased without adding extra water

### Standards compliance

Conplast P505(T) plasticiser complies with BS 5075 Part 1 and with ASTM C494 as Type B & D.

### Description

Conplast P505(T) plasticiser is a chloride free and water reducing admixture based on selected sugar - reduced lignosulphonate materials. It is supplied as a brown solution which instantly disperses in water.

Conplast P505(T) plasticiser disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively and improving the consistency of the concrete. This produces higher levels of workability for the same water content, allowing benefits such as water reduction and increased strengths.

### 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 P505(T) plasticiser 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 0.4 to 1.0 litres/100 kg of cementitious material, including PFA, GGBFS or microsilica.

### Use at other dosages

Dosages outside the normal range quoted above can be used to meet particular mix requirements. Contact Fosroc for advice in these cases.

### Properties

<b>Appearance</b>	Brown liquid
<b>Specific gravity</b>	1.190 - 1.210 at 27°C
<b>Chloride content</b>	Nil to BS 5075
<b>Air entrainment</b>	Typically less than 1% additional air is entrained at normal dosages

### Instructions for use

#### Compatibility

Conplast P505(T) plasticiser 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 performance of concrete containing more than one admixture should be assessed by trial mixes.

Conplast P505(T) plasticiser 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 P505(T) plasticiser should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixer water to obtain the best results. Fosroc shall be contacted for advice regarding suitable equipment and its installation.

#### Effects of overdosing

An overdose of double the intended amount of Conplast P505(T) plasticiser will result in a significant increase in retardation as compared to that normally obtained at the intended dosage. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally 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.

# Conplast® P505(T)

Estimating

## Packaging

Conplast P505(T) plasticiser is available in 200 litre containers.

## Storage

Conplast P505(T) plasticiser 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 then contact local Fosroc office for advice.

**Freezing point** : Approximately -3°C

## Precautions

### Health and safety

Conplast P505(T) plasticiser does not fall into the hazard classifications of current regulations. 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 P505(T) plasticiser is water based and nonflammable.

### Cleaning and disposal

Spillages of Conplast P505(T) plasticiser 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 :

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