



# Fosroc Conplast WP200

High performance permeability reducer

## Uses

- Can be used solely or with Conplast WP400\*\* for waterproof, structural and precast concrete.

## Advantages

- Does not incorporate bitumen.
- Provides integral protection, ensuring reduced permeability throughout the concrete.
- Integral protection is maintained even if surface damage occurs, unlike applied surface films or coatings.
- Lower water:cement ratio improves compressive strength at same workability.
- Fully compatible with certain Fosroc surface coatings and finishes.

## Description

Conplast WP200 chloride free permeability reducing admixture is based on a formulated blend of dispersants. It is supplied as a brown solution which instantly disperses in water.

The dispersants in Conplast WP200 improve the effectiveness of water in the concrete mix, enabling desired levels of workability to be obtained with lower water contents. This produces a mix with a reduced water:cement ratio and therefore reduced permeability.

## Technical support

Fosroc provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

## Typical Dosage

The optimum dosage of Conplast WP200 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimisation of admixture dosage and mix design and provides a complete assessment of the mix. The normal recommended dosage is 0.40 to 0.75 litre per 100 kg of cement.

## Effects of overdosing

An overdose of Conplast WP200 may result in increased retardation and workability.

## Typical Properties

<b>Appearance</b>	: Brown solution
<b>Specific gravity</b>	: 1.18 at 25°C
<b>Chloride content</b>	: Nil to BS 5075 / BS:EN934

## Instructions for use

### Compatibility

Conplast WP200 is compatible with other Fosroc admixtures used in the same concrete mix. All admixtures should be added to the mix separately and must not be premixed together prior to addition. The resultant properties of mixes containing more than one admixture should be assessed by the trial mix procedure recommended on this data sheet.

Conplast WP200 is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and microsilica.

The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times.

### Dispensing

The correct quantity of Conplast WP200 should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results. Contact the Fosroc Technical Service Department for advice regarding suitable equipment and its installation.

### Curing

As with all structural concrete, good curing practice should be maintained, particularly in situations where an overdose has occurred. Water spray, wet hessian or a Concure\*\* spray applied curing membrane should be used.

## Typical performance example

Many variables in concreting materials and conditions can affect the selection and use of an admixture. Trials should be carried out using relevant materials and conditions in order to determine the optimum mix design and admixture dosage to meet specific requirements.

Because of the variability of concreting materials, the results should only be taken as typical of the performance to be expected. Results quoted are not necessarily directly comparable with results obtained elsewhere for Conplast WP200 or other products.

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## Typical results

<b>28 day compressive strength</b>	: + 20 %
<b>Chloride permeability</b>	: - 20 %
<b>Water absorption (BS 1881)</b>	: - 25 %

## Limitations

The use of Conplast WP200 will not make poor quality concrete waterproof. Good concrete practice must be followed at all times. Well graded aggregates must be used and a minimum cement content of 300 kg/m<sup>3</sup> is recommended. Adequate water bars must be provided between lifts of concrete and floor bays.

## Estimating

### Supply

#### Conplast WP200

210 litre drum, 1000 litre totes.

For larger users, storage tanks can be supplied.

## Storage

Conplast WP200 has a minimum shelf life of 12 months if the temperature is kept within the range of 2°C to 50°C. Contact the Fosroc Technical Service Department for advice should the temperature of the product fall outside this range.

## Precautions

### Health and safety

Conplast WP200 is mildly alkaline and should not be swallowed or allowed to come into contact with skin and eyes.

Wear suitable protective gloves and goggles. In case of contact with the skin, wash immediately with soap and 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 Safety Data Sheet available for this product.

### Fire

Conplast WP200 is water based and non-flammable.

### Cleaning and disposal

Spillages of Conplast WP200 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Hose down remnants 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.

\* Denotes the trademark of Fosroc International Limited

† See separate data sheet



## 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 Service. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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