

Chemplast WPP1000

Concrete integral waterproofing admixture

Uses

As an integral waterproofer for:

- ✎ Structural and precast concrete
- ✎ Sand : Cement renders
- ✎ Floor screeds
- ✎ Mortars and Plasters

Advantages

- ✎ Allows a reduction in mix water content to be made without affecting workability, so reducing permeability.
- ✎ Provides integral protection, ensuring reduced permeability throughout the concrete and mortars.
- ✎ Integral protection is maintained even if surface damage occurs, unlike applied surface films or coatings.
- ✎ Lower water:cement ratio improves compressive strength at the same workability.
- ✎ Formulated for use in the South Asia and Middle East.

Description

Chemplast WPP 1000 is a chloride free integral waterproofing admixture and is supplied as a white powder. It is formulated from a blend of hydrophobic materials; which together form a matrix of insoluble, water resistant material within the cement paste.

The plasticisers in Chemplast WPP 1000 also improve the effectiveness of water in the concrete and sand:cement 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.

Properties

Form : White powder

Chloride Content : Nil to BS5075

Typical dosage

The optimum dosage of Chemplast WPP 1000 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. As a guide, an addition rate of 1.3% - 2% by weight of cement.

Use at other dosages

Dosages other than those given on this sheet may be used to meet particular mix requirements provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes. Contact our local representative for any further advice.

Instructions for use

Compatibility

Chemplast WPP 1000 is compatible with other admixtures used in the same concrete mix. All admixtures should be added to the mix separately and must not be mixed 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.

Chemplast WPP 1000 is suitable for use with all types of Portland cements and cement replacement materials such as PFA, GGBFS and microsilica.

Dispensing

The correct quantity of Chemplast WPP 1000 should be measured by means of a suitably accurate device; and then added to the concrete during the mixing process either by hand, or

mechanically. Contact the our Technical Service Department for advice regarding suitable equipment and its installation.

Effects of overdosing

An overdose of double the intended dose of Chemplast WP 1000 may result in increased retardation and workability.

Curing

As with all structural concrete and sand:cement mixes, 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.

Limitations

The use of Chemplast WPP 1000 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 300kg/m³ is usually recommended. Adequate waterstops must be provided between lifts of concrete and floor bays.

UAE/0436/01/A

Estimating

Supply

Chemplast WPP 1000 : 1kg pack

Storage

When stored in warehouse conditions below 35°C, chemplast WPP1000 will have a shelf life of 12 months.

Precautions

Health and safety

Chemplast WPP 1000 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

Chemplast WPP 1000 is an inert, non-flammable material.

Cleaning and disposal

Spillages of Chemplast WPP 1000 should be removed by 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.