

Conplast WP405



constructive solutions

Hydrophobic pore-blocking waterproofing admixture

Uses

- Production of water resistant concrete
- Concrete for liquid retaining/ excluding structures
- Concrete for aggressive exposure classes

Advantages

- Bitumen ammonia free system
- Provides integral protection, ensuring reduced permeability
- Integral protection is maintained even if surface permeability through the concrete
- Fully compatible with certain Fosroc surface coating sand finishes

Description

Conplast WP405 chloride free admixture is supplied as a turbid liquid which instantly disperses in water.

Conplast WP405 is an organic liquid which reacts with products of the cement hydration process to produce a hydrophobic material which repels external water, reducing absorption into the concrete. Conplast WP405 is designed for use as an integral water resisting admixture for ready mix concrete.

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.

Dosage

The optimum dosage of Conplast WP405 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 1.0 to 2.0 litres per 100 kg of cementitious content.

Effects of overdosing

An overdose of double the intended dose of Conplast WP405 may result in increased retardation and workability, hence reduce the short term strength development. Long term strength is unlikely to be affected.

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 the Fosroc Technical Department for advice in these cases.

Properties

Appearance	: Brown Liquid
Density	: 1.01
pH	: 8.4
Total Chloride	: Maximum 0.1%
Alkali	: < 5

Instruction for Use

Compatibility

Conplast WP405 is compatible with most of Fosroc's superplasticisers and retarders but all admixtures must be added separately and should not mixed together when used in the same concrete mix. The resultant properties of mixes containing more than one admixture should be assessed by the trial mix procedure recommended on this data sheet.

Good concrete practise must be followed and a water cement ratio of at least 0.42 is recommended.

Conplast WP405 is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and microsilica.

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.

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Package

Bulk, 1000 kg IBC, 220 kg barrel and 30 kg plastic bags

Storage

Conplast WP405 has a minimum shelf life of 12-months provided the temperature is kept within range of +5°C to +35°C. Protect from freezing. Should the temperature of the product fall outside this range contact Fosroc office for advice.

Precautions

Health and safety

Conplast WP405 is 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 WP405 is water based and non-flammable.

Cleaning and disposal

Spillages of Conplast WP405 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



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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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