



Conplast® P211(M)

Plasticising and waterproofing concrete admixture

Uses

To improve the effectiveness of the water content of a concrete mix.

Higher dosages provide 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 strengths 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 prestressed and reinforced concrete.

Standard Compliance

Conplast P211(M) complies with IS:9103-1999. It also complies with IS:2645:2003 as an integral waterproofing compound

Description

Conplast P211(M) is a chloride free water reducing admixture based on selected sugar-reduced lignosulphonates. It is supplied as a brown solution which instantly disperses in water.

Conplast P211(M) 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 to be taken.

Technical support

Fosroc provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment.

Typical dosage

The optimum dosage of Conplast P211(M) 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 concrete mix. A starting point for such trials is to use a dosage within the normal typical range of 0.20 to 0.50 litres / 100kg of cementitious material, including PFA, GGBFS and microsilica.

Use at other dosages

Dosages outside the typical ranges quoted above may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes. Contact Fosroc Technical Services Department for advice in these cases.

Properties

Appearance	:	Brown liquid
Specific gravity	:	1.18 - 1.20 @25°C
Chloride content	:	Nil to IS:456
Air entrainment	:	Typically less than 2.0%. Additional air is entrained at normal dosages.
Alkali content	:	Typically less than 5.0g Na ₂ O equivalent / litre of admixture.

Application instructions

Compatibility

Conplast P211(M) is compatible with other Fosroc admixtures 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 the trial mix procedure recommended in this data sheet to ensure that, effects such as unwanted retardation do not occur.

Conplast P211(M) is suitable for use with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and micro silica.

Reducing water permeability ('Waterproofing')

One of the most effective means by which the water permeability of a concrete mix can be reduced is to make a large reduction in water-cement ratio. Conplast P211(M) can be used to provide such a reduction and to produce a concrete with the benefits of low permeability.

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Dispensing

The correct quantity of Conplast P211(M) 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.

Effects of overdosing

An overdose of double the intended amount of Conplast P211(M) will result in an increase in retardation as compared to that normally obtained at the intended dosage.

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.

Estimating

Packaging

Conplast P211(M) is supplied in 1.5, 20, 50 and 200 litre containers.

Storage

Shelf life

Conplast P211(M) 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 the Fosroc Technical Service Department should be contacted for advice.

Freezing point : -3°C

Precautions

Health and safety instructions

Conplast P211(M) does not fall into the hazard classifications. However, it should not be swallowed or allowed to come into contact with the 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 the eyes it shall be rinsed immediately with plenty of water and medical advice sought immediately. If swallowed, medical attention shall be sought immediately - **Vomiting should not be induced.**

Fire

Conplast P211(M) is water based and non-flammable.

Additional information

The Fosroc range of associated products includes high strength cementitious, epoxy grout, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; Resin Anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz., curing compounds, release agents, flooring systems, repair mortars, sealants and waterproofing materials

Separate datasheets are available on these products.

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Important note :

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