

Conplast Drymix 1

Cement dispersing admixture for semi-dry concrete

Uses

- To improve the quality and consistency of semi-dry concrete products produced by modern paving and masonry block machines
- To increase strength of finished product without increasing cement content
- To provide smoother, faster machine operation

Advantages

- Allows higher early and later age strengths to be obtained without additional cement
- Reduced curing period/steam curing costs
- Improved responsiveness to vibration
- Faster production cycle
- Improved surface finish and texture
- Sharper edge detail
- Improves 'green' strength, resulting in fewer losses due to breakage
- Improved cement economics at same or better strength
- Improves mix rheology under vibration, allowing smoother machine operation with reduced cycle times
- Improves uniformity of filling moulds, reducing standard deviation and giving better dimensional control of product

Description

Conplast Drymix 1 is a low dosage cement dispersing admixture which optimises the hydration and strength gain characteristics of the cementitious components. It is supplied as a ready to use chloride-free brown liquid which instantly disperses in water.

Conplast Drymix 1 is specially formulated for optimum performance with modern concrete block paving and masonry production equipment. It disperses the fine particles in the mix and produces a rheological flow as moulds are filled and compacted. This enhances the production process, improving filling and compaction and reducing pre and final vibration times. The enhanced dispersion also improves the consistency of the final product strength and surface finish.

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 Drymix 1 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, mix design and equipment settings and provides a complete assessment of the final product. A starting point for such trials is to use a dosage within the normal typical range of 0.10 to 0.30 litres/100 kg of cementitious material, including PFA, GGBFS or microsilica.

Use at other dosages

Dosages outside the typical range 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 the Fosroc Customer Service Department for advice in these cases.

Properties

Appearance:	Brown liquid
Specific gravity:	Typically 1.13 at 20°C
Chloride content:	Nil to BS 5075
Alkali content:	Typically less than 20.0 g. Na ₂ O equivalent/litre of admixture. A fact sheet on this subject is available.

Instructions for use

Compatibility

Conplast Drymix 1 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 resultant properties of concrete containing more than one admixture should be assessed by trials to ensure that effects such as unwanted retardation do not occur.

Conplast Drymix 1 is suitable for use with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and silica fume.

Dispensing

Conplast Drymix 1 is supplied ready for use and for best results the correct quantity should be measured by means of a recommended dispenser and then sprayed with the mixing water into the mixer. Spraying ensures a more effective dispersion through a semi-dry concrete mix. Contact the Fosroc Customer Service Department for advice regarding suitable equipment and its installation.

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Effects of overdosing

An overdose of double the intended amount of Conplast Drymix 1 is likely to lead to excessive workability, making the mix too workable for use. There is also likely to be some setting retardation and reduction in early age strength.

Curing

Normal curing procedures for semi-dry concrete should be maintained.

Estimating and packaging

Conplast Drymix 1 is available in 20 litre kegs and bulk supply. For larger users, storage tanks can be supplied. Details of specific packaging volumes are available on request.

Storage

Conplast Drymix 1 has a 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 Customer Service Department should be contacted for advice.

Precautions

Health and safety

For further information consult the Product Safety Data Sheet available for this product.

Fire

Conplast Drymix 1 is water based and non-flammable.

Conplast is the trade mark of Fosroc International Limited



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