

Conplast SD110

formerly Conplast Blocksave



Conplast SD110
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Cement saver for semi-dry concrete

Uses

- To reduce material costs in semi-dry concrete manufacture without loss of performance

Advantages

- Strengths, density and yield of semi-dry concrete units can be maintained at lower cement contents
- Allows higher early and later age strengths to be obtained without additional cement
- Improves 'green' strength, resulting in fewer losses due to breakage
- Air entrainment improves resistance to frost attack
- Improved mix cohesion allows economical use of a wide range of aggregates

Standards compliance

Conplast SD110 meets the uniformity test requirements of BS 5075 Part 1.

Description

Conplast SD110 chloride-free admixture is specially formulated for optimum cost saving across a wide range of static and mobile (egg-laying) block paving and masonry production equipment. It is supplied as a brown solution which instantly disperses in water.

Conplast SD110 disperses the fine particles in the mix, improving cement dispersion and compaction to maximise the strength obtained from the cement used. The improved performance can then be used to allow reductions in cement content without loss of performance. Controlled air entrainment maintains yield and improves surface finish while providing improved resistance to frost attack.

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 SD110 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 0.20 to 0.50 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 1.16 at 20°C
Chloride content:	Nil to BS 5075
Alkali content:	Typically less than 5.0 g. Na ₂ O equivalent / litre of admixture. A fact sheet on this subject is available

Instructions for use

Compatibility

Contact the Fosroc Customer Service Department for advice before using Conplast SD110 in a mix containing other admixtures. Normally only one admixture is used in a semi-dry concrete mix.

Conplast SD110 is suitable for use with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and silica fumes.

Dispensing

Conplast SD110 is supplied ready for use and for best results the correct quantity should be measured by means of a recommended dispenser and then sprayed either onto the aggregate/sand belt, into the loading hopper or into the mixer itself. 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.



Effects of overdosing

An overdose of double the intended amount of Conplast SD110 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.

Limitations

Conplast SD110 may be too effective for use with block manufacturing equipment which provides very high intensity vibration during compaction. Similarly, if aggregate stock piles are wet the improvement in water effectiveness may produce excessive workability. Contact the Fosroc Customer Service Department for advice in these cases.

Estimating — packaging

Conplast SD110 is available in drum and bulk supply. For larger users, storage tanks can be supplied. Details of specific packaging volumes are available on request.

Storage

Conplast SD110 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 Customer Service Department should be contacted for advice.

Precautions

Health and safety

Conplast SD110 should not be swallowed or allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles. Splashes on the skin should be removed with 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 SD110 is water based and non-flammable.

Cleaning and disposal

Absorb spillages of Conplast SD110 onto sand, earth or vermiculite and transfer 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.

Additional information

Conplast SD110 was previously known as Conplast Blocksave.

Conplast is the trade mark of Fosroc International Limited



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