

TECHNICAL DATA SHEET

Qblock DH



Concentrated Powder Concrete Plasticiser and Water Reducing agent

Description

Qblock DH is a powerful powder plasticizer which disperses the cement particles within a concrete mix. It can be used to improve workability, without the addition of extra mixing water, or to allow reductions in the free water content of the concrete mix.

Appropriate Standards

EN 934 - 2 table 2

Primary uses

- To increase / extend workability.
- To increase compressive strength.
- To effect cement economies.
- For hot weather concreting.
- To reduce water content.

Typical applications

- In pre-stressed concrete.
- In areas of congested reinforcement where high workability is of benefit.
- In pre-cast concrete manufacture.
- In concrete brick and block manufacture.
- Wherever reduced water content would be of benefit to reduce permeability.
- In hot weather to extend workability.

Advantages

- Significantly improves the workability therefore easing placing.
- Improves the cohesive properties of the concrete helping to reduce segregation and bleeding.
- Allows water reduction in the region of 10% to be achieved whilst maintaining workability, thereby increasing strength, durability and impermeability.
- Of particular benefit in hot climatic conditions when used to extend workability.
- Enables economies in mix designs to be achieved thereby saving cement.

Compatibility

Qblock DH can be used with all types of Portland cement including sulphate resisting.

Qblock DH should not be pre-mixed with other admixtures.

If other admixtures are to be used in concrete containing Qblock DH they must be dispensed separately.

Typical properties

Properties listed are only for guidance and are not a guarantee of performance

Colour: Brown Powder

Specific gravity: N/A

Air entrainment: 1 to 2% dependent on grading of sand and water content.

Chloride content: Nil to BS 5075 Part 1

Nitrate content: Nil

Freezing point: N/A

Flashpoint: N/A

Directions for use

Qblock DH should be added to the concrete mix during the mixing cycle at the same time as the water and the aggregates.

Dosage

Trials should be conducted to determine the optimum addition rates of Qblock DH.

A dosage of 15 grams per 25kg cement is recommended as a starting point.

For hot weather concreting where Qblock DH is to be used to extend workability, a starting dosage of 30 grams per 25kg cement is recommended.

Effects of over dosage

A severe over-dosage of Qblock DH will result in the following:

- Retardation of initial set.
- Increase in air entrainment.
- Increase in workability.

Providing concrete is properly cured, the ultimate strength of the concrete should not be adversely affected and will generally be higher than for normal concrete.

Dispensing

Qblock DH should be dispensed accurately in proportion to the cement content of the mix

Packaging

Qblock DH is available in 15 gram sachets

Storage

Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.