

TECHNICAL DATA SHEET

Qblock PLUS



Plasticiser and Water Reducing agent for Concrete

Description

Qblock PLUS is a powerful 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 PLUS can be used with all types of Portland cement including sulphate resisting as well as PFA and GGBS blended cements. **Qblock PLUS** should not be pre-mixed with other admixtures.

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

Typical properties

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

Colour: Pale Amber Liquid

Specific Gravity: 1.03 at 25°C

Air Entrainment: Nil

Chloride Content: Nil to BS 5075 Part 1

Nitrate Content: Nil

Freezing point: -2°C.

Can be reconstituted If stirred after thawing.

Flashpoint: None

Directions for use

Qblock PLUS should be added to the concrete mix during the mixing cycle at the same time as the water and the aggregates. Never **Qblock PLUS** to the dry cement.

Dosage

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

A dosage range of 280ml to 560ml per 100kg cement is recommended as a starting point.

For hot weather concreting where **Qblock PLUS** is to be used to extend workability, a dosage of 400ml to 800ml per 100kg cement is recommended.

Effects of over dosage

A severe over-dosage of **Qblock PLUS** 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 PLUS should be dispensed through a proprietary dispenser or via accurate manual dosing.

Packaging

Qblock PLUS is available in 5, 25, 200 and 1000 litre containers

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.

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