

Expanplast Blocksave*



CONSTRUCTION CHEMISTRY

Admixture for concrete/mortar in the paving and masonry block industry

Uses

- To improve the effectiveness of the water content of a concrete/mortar mix.
- At higher dosages to provide a cost effective means of reducing concrete/mortar permeability and thereby reducing water penetration.
- To improve the quality and consistency of concrete products produced by modern paving and masonry block machines.
- To provide smoother, faster machine operation and increase product strength.
- Particularly suitable for precast/masonry block/pavers industry/mortar lining and other high early strength requirements.

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.
- Reduce adhesion to mould, and improve surface finish of the product, also assists in the production of a dense, close textured surface, reduce efflorescent.
- Breakages reduced due to increased compressive strength at early ages.

Standards compliance

Expanplast Blocksave complies with BS 5075 Part 3 and with ASTM C494 as Type A & F.

Description

Expanplast Blocksave is a chloride free water reducing admixture supplied as a brown solution which instantly disperses in water.

Expanplast Blocksave disperses the fine particles in the concrete mix, enabling the water content of the concrete 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

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

Dosage

The optimum dosage of Expanplast Blocksave to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is 0.20 to 1.0 Kg/100 kg of cementitious material, and can be use up-to 2.00 Kg/100 kg of cementitious material for high strength and high workability concrete.

Use at other dosages

Dosages outside the normal ranges quoted above can be used to meet particular mix requirements. Contact Fospak for advice in these cases.

Effects of overdosing

An overdose of more than double the intended amount of Expanplast Blocksave will result in an increase in retardation as compared to that normally obtained at the intended dosage. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased. The effects of overdosing will be further increased if sulphate resisting cement or cement replacement materials are used.

Properties

Appearance	: Brown liquid
Specific gravity	: Typically 1.165 – 1.175 at 20°C
Air entrainment	: Typically less than 2% additional air is entrained at normal dosages.

Instructions for use

Compatibility

Expanplast Blocksavé is compatible with other Fospak admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be premixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by trial mixes.

Expanplast Blocksavé is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and microsilica.

The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times.

Dispensing

The correct quantity of Expanplast Blocksavé 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. Contact Fospak for advice regarding suitable equipment and its installation.

Estimating - packaging

Expanplast Blocksavé is available in 30 & 250 drums or bulk supply. For larger users, storage tanks can be supplied.

Storage

Expanplast Blocksavé 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 contact Fospak for advice.

Freezing point: Approximately -3°C

Precautions

Health and safety

Expanplast Blocksavé does not fall into the hazard classifications of current regulations (see notes 1 and 2 below). However, it should not be swallowed or allowed to come into contact with 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 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 Material Safety Data Sheet available for this product.

Fire

Expanplast Blocksavé is water based and non-flammable.

Cleaning and disposal

Spillages of Expanplast Blocksavé should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down 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.

*** Denotes the trademark registered**

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