

kN500

Superplasticizer for Blocks & Pavers

Description:

KS-BP01 is a chloride free water reducing superplasticizer based on specially selected and blended polymers. It is supplied as a brown solution which instantly disperses in water. **KS-BP01** is especially formulated for manufactured concrete products, where high early strength and cement saving are required.

Advantages:

- Provide excellent acceleration of strength gain at early and later by reducing water demand significantly.
- Increased tensile and flexural strength can be achieved as a benefit of its water reducing properties.
- High early compressive strengths and better durability.
- Improved surface finish.

Uses:

- Particularly suitable for manufactured products such as concrete blocks, pavers, curve stone and other high early strength requirements.
- To provide improved durability by increasing ultimate strengths and reducing concrete permeability

Properties:

Appearance	: Brown liquid
Specific gravity	: 1.22 + 0.02 @ 25°C
pH	: 6.0 + 1.0
Chloride content	: Nil to BS 5075

Standards:

KS-BP01 complies with ASTM C494 Type A

Dosage:

The optimum dosage of **KS-BP01** to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use. For high strength, water reduced concrete the normal dosage range is from 0.7 to 2.0 litres/100 kg of cementitious material, including PFA, GGBFS and micro silica. Dosage will vary according to concrete property requirement and mix design.

Overdosing:

An overdose of **kS-BP01** will result in an increase in retardation. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired.

Compatibility:

kS-BP01 is compatible with other admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be premixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by trial mixes.

kS-BP01 is suitable for use with all types of Portland cements and cement replacement materials, such as GGBS, micro silica and PFA.

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.

kS-BP01 is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticizing effect and water reduction are higher if the admixture is added to the concrete after 50 to 70% of the mixing water has been added. The addition of **kS-BP01** to dry aggregate or cement is not recommended.

Dispensing:

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Storage:

kS-BP01 Up to 1 year in unopened original packing, protected from extremes of heat and cold and stored under shade.

Precautions:

kS-BP01 is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information, refer to the Material Safety Data Sheet.