KingMix® 300SP

High range water reducing admixture for workability-retaining superplasticised concrete.

DESCRIPTION

KingMix 300SP is a ready-to-use liquid high range water reducing admixture, designed to produce high-slump concrete that keeps its workability. KingMix 300SP is chloride-free.

APPLICATIONS

- Concrete where delayed setting and extended workability are required.
- Mass concrete pours.
- Ready-mixed concrete.
- Concrete transported over long distances.
- Pumped concrete.
- Concreting in hot weather.

ADVANTAGES

- Superplasticising effect in high-slump concrete.
- Large reduction in water demand at equal slump.
- Better workability than untreated concrete at the same water content.
- Excellent slump retention.
- Less cracking.
- Lower permeability.
- Greater durability.
- Higher compressive and flexural strengths.

STANDARDS

KingMix 300SP meets the requirements of ASTM C494 Types D and G, and of BS 5075, for high range water reducing admixtures.

TECHNICAL PROPERTIES

Colour:	Brown liquid
Density:	1.18 ± 0.02 g/cm³
Freezing point:	≈ -2°C
Chloride content (BS 5075):	Nil
Air entrainment:	Typically less than 1% additional air above the control mix at normal dosages

METHOD OF USE

Dosage

KingMix 300SP is used at 0.5 - 1.5 litre/100 kg of cement. Other dosages may be used to suit the working conditions on site.

Dispensing

KingMix 300SP is added to the mixer together with the mixing water. The plasticising effect and the water reduction are greater when it is added to the damp concrete after 50 - 70% of the water. Adding it to dry aggregate or cement is not recommended, as this reduces the plasticising effect and the water reduction.

Setting time

The setting time depends on the chemical and physical make-up of the concrete ingredients and on the climate. Carry out trial mixes with the job materials to find the dosage that gives the specified setting time and strength.

PACKAGING

KingMix 300SP is available in 200 litre drums and in bulk.

STORAGE

Shelf life is at least 2 years in tightly closed original containers. Store at temperatures between +5°C and +50°C. If the product has been frozen, consult KingKrete's Technical Services Department before use.

HEALTH AND SAFETY

KingMix 300SP contains no hazardous substances requiring labelling. For further information, refer to the Safety Data Sheet.

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NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from KingKrete's Middle East facility are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, ISO 14001 and ISO 45001.

* Properties listed are based on laboratory-controlled tests.
® = Registered trademark of the KingKrete-Group in many countries.

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STATEMENT OF RESPONSIBILITY

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NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.

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