KingMix® 675SP

High range water reducing superplasticiser for rheoplastic concrete.

DESCRIPTION

KingMix 675SP is formulated from synthetic polymers designed to give concrete rheoplastic properties. Rheoplastic concrete is a fluid concrete with a slump of at least 200 mm that flows easily without segregating, at the same water/cement ratio as a 25 mm slump concrete made without admixture.

KingMix 675SP considerably improves the properties of both fresh and hardened concrete. It is chloride-free.

APPLICATIONS

- Microsilica concrete.
- Mass concrete pours.
- Ready-mixed concrete.
- Concrete transported over long distances.
- Pumped concrete.
- Casting in hot climates.

ADVANTAGES

- Lower thermal peaks.
- High workability for longer periods.
- Lower pumping pressure.
- Delayed setting with longer workability.
- Higher ultimate strengths.
- Lower permeability.
- Better durability.

Compatibility

KingMix 675SP is compatible with all cements and with most air-entraining agents that meet ASTM standards. Where the concrete must withstand freeze-thaw cycles, use KingMix 675SP together with an air-entraining agent.

STANDARDS

EN 934-2: Tables 3.1, 3.2, 11.1 and 11.2.

ASTM C494: Types A, B, D, F and G.

TECHNICAL PROPERTIES

Colour:	Dark brown liquid
Specific gravity:	1.16 @ 25°C
Chloride content:	Chloride-free to EN 934
Freezing point:	0°C

METHOD OF USE

Dosage

Find the optimum dosage by trial mixes. As a starting point: 0.8 - 2.0 litre/100 kg of total cementitious material in normal concrete, and 1.5 - 3.0 litre/100 kg of total cementitious material in high-performance microsilica concrete. Depending on the mix requirements, higher dosages can be used without adverse effects on the concrete. For advice, consult KingKrete's Technical Services Department.

Dispensing

KingMix 675SP is a ready-to-use liquid, dispensed into the concrete together with the mixing water. The plasticising effect and the water reduction are greater when it is added after 50 - 70% of the mixing water. Do not add it to dry aggregate or cement. Automatic dispensers are available.

Workability

Rheoplastic concrete made with KingMix 675SP stays workable for more than 3 hours at +20°C. The loss of workability depends on the temperature, the type of cement, the aggregates, the method of transport and the initial workability. Cure the concrete properly, particularly in hot and dry climates.

PACKAGING

KingMix 675SP is available in 25 litre pails, 210 litre drums and in bulk.

STORAGE

Store at temperatures above +5°C, under cover, out of direct sunlight and protected from extremes of temperature. If the product has frozen, thaw it and agitate until it is completely reconstituted.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

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HEALTH AND SAFETY

KingMix 675SP is not a fire or health hazard. Wash down spillages immediately with cold water. For further information, refer to the Safety Data Sheet.

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.
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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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.

KingKrete Middle East
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