KingMix® 100SC

Liquid concrete accelerator.

DESCRIPTION

KingMix 100SC is a set accelerating, chloride free admixture used for sprayed concrete, shotcrete and gunite processes.

ADVANTAGES

Rapid set allows thick sections to be built-up.

- Minimum rebound.
- Single pass spraying for thick layers.
- Excellent for overhead applications.

COMPATIBILITY

KingMix 100SC can be used with all types of Portland cement and cement replacement materials.

KingMix 100SC is compatible with other KINGKRETE admixtures when used in the same concrete mix. If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

METHOD OF USE

Stiffening occurs approximately after 10 seconds of mixing concrete with KingMix 100SC. As with all other processes and products, the rapid initial acceleration of the cement hydration process, will affect the ultimate concrete strength.

Dosage

The optimum dosage for KingMix 100SC to meet specific requirements should be determined by trials using the materials and conditions that will be experienced in use. This can best determine the optimum dosage to be used and will ensure most cost effective site application. The typical dosage range for KingMix 100SC is 5.0 - 20.0 liter/ 100 kg of cementitious and cement replacement material, including PFA, GGBFS or microsilica, which can be used as a starting point for the trials.

Use at Other Dosages

Dosages outside the typical range quoted above may be used if necessary to meet particular mix requirements. Compliance with requirements must be assessed through trial mixes. For further information and support, contact KINGKRETE Technical Staff.

EFFECTS OF OVER DOSAGE

An overdose of the intended amount of KingMix 100SC will result in reduced setting of the mix and will result in some loss of strength.

TECHNICAL PROPERTIES

Colour:	Pale straw liquid
Specific gravity:	1.40 ± 0.05
pH:	10-13
Chloride content: BS 5075	Nil

DISPENSING AND MIXING

KingMix 100SC is normally introduced directly after the air ring in the spray nozzle. In order to obtain a consistent supply of admixture at the nozzle the delivery system should have a 600 KPa pressure pot, and a 20 mm inside diameter pressure delivery hose controlled by a pressure restrictor and tap.

With ‘wet process’ the use of a water reducing admixture to reduce the water content while increasing workability of the mix is recommended.

CLEANING

KingMix 100SC can be washed with fresh cold water.

PACKAGING

KingMix 100SC is available in 210 liter plastic drums and 1000 liter bulks supply.

STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature.

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.

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

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.

KingMix® 100SC

Liquid concrete accelerator.

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.

Ref: KK-01006-MEA-R01 | Issue: 01.2026

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.