

# KingAdd® 100HC

Cement hydration controlling admixture.

## DESCRIPTION

KingAdd 100HC is a liquid admixture formulated from selected polymers specially designed to retard the setting time by controlling the hydration process of Portland cement and other cementitious materials for long time. This effect can be used to keep concrete workable for long time starting from 3 hours till three days.

## APPLICATIONS

- ☒ For wet type shotcrete.
- ☒ For long distance concrete delivery.
- ☒ High performance concrete.
- ☒ Concrete washwater stabilization.
- ☒ To avoid setting of concrete in transit mixers in case of accident.

## ADVANTAGES

- ☒ Reduce concrete waste in case of changing concrete casting schedule.
- ☒ Excellent retardation for long time up to 3 days.
- ☒ Excellent slump retention for very long concrete deliveries.
- ☒ Saving transit mixers drums in case of accident.
- ☒ Reduce the needed amount of water to clean transit mixer.
- ☒ Chloride free.

## COMPATIBILITY

KingAdd 100HC can be used with all types of Portland cement and cement replacement materials. KingAdd 100HC is compatible with other KINGKRETE admixtures 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.

## STANDARDS

KingAdd 100HC complies with ASTM C494, Type B.

## TECHNICAL PROPERTIES

Colour:	Yellowish liquid
Specific gravity:	1.1 ± 0.03
Chloride content: BS 5075	Nil

## METHOD OF USE

KingAdd 100HC should be added to the concrete with the mixing water to achieve optimum performance. Also it can be added directly to the drum of concrete mixers when unplanned changes in concrete casting schedule.

## DOSAGE

The guidance dosage of KingAdd 100HC is 0.1 - 3.0 litre/ 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of KingAdd 100HC to meet the performance requirements by using the materials and conditions in actual use.

## EFFECTS OF OVER DOSAGE

Overdosage of KingAdd 100HC will cause the following:

- ☒ Significant increase in retardation.
- ☒ Increase in workability.

## CLEANING

KingAdd 100HC can be washed with fresh cold water.

## PACKAGING

KingAdd 100HC is available in 25 litre pails, 210 litre drums and 1000 litre 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.



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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.  
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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.

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