

KingAdd® 50HC

Cement hydration controlling admixture.

DESCRIPTION

KingAdd 50HC 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 a long time.

This effect can be used to keep concrete mixes workable for a long time starting from 3 hours till three days.

APPLICATIONS

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

ADVANTAGES

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

COMPATIBILITY

KingAdd 50HC is suitable to use with all types of Portland cement and cement replacement materials. KingAdd 50HC is compatible with other KINGKRETE admixtures used in the same concrete mix.

If more than one type of admixture is to be used, they must be dispensed into the mix separately.

STANDARDS

KingAdd 50HC complies with the requirements of Specification for Chemical Admixture for Concrete ASTM C494 as a Type B admixture.

TECHNICAL PROPERTIES

Colour:	Brown liquid
Specific gravity:	1.06 ± 0.02
pH:	6 - 9
Chloride content:	Chloride-free

METHOD OF USE

KingAdd 50HC 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 recommended dosage of KingAdd 50HC is between 2.5 to 123 fl oz/100 lb (163 to 7,995 ml/100 kg) of cementitious materials in the mix, including GGBFS, PFA or micro-silica. Actual dosage depends on the desired retardation.

Representative trials should first be conducted to determine the optimum dosage of KingAdd 50HC to meet the performance requirements by using the materials and conditions in actual use.

For traditional compliance with ASTM C494, the recommended dosage is between 2.5 to 10 fl oz/100 lb (163-650 ml/ 100 kg) of cementitious materials in the mix.

EFFECTS OF OVER DOSAGE

Overdosage of KingAdd 50HC will cause the following:

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

CLEANING

Clean KingAdd 50HC with fresh cold water.

PACKAGING

KingAdd 50HC is available in 5 gal (19 litre) containers as well as 275 gal (1,041 litre) and 330 gal (1,249 litre) IBC totes. Bulk supply in tanker trucks is also available upon request.

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.



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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.

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
Qatar – Syria
www.kingkrete.com

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