

# KingAdd® GS50

High range water reducing superplasticiser admixture and dispersing agent for cementitious grouts.

## DESCRIPTION

KingAdd GS50 is superplasticising admixture formulated from selected polymers specially designed to enable the water content of the cementitious grout to perform more effectively. This effect can be used to improve workability, to increase ultimate strengths. It has also stabilizing agent to reduce bleeding and segregation in cementitious grout.

## APPLICATIONS

- ☒ High flow cementitious grout application.
- ☒ To accelerate early strength development.
- ☒ To produce high quality cementitious grout of improved durability and water tightness.
- ☒ Prestressed and post tensioned grouting.
- ☒ For dispersing cements and micro cements in injection applications.

## ADVANTAGES

- ☒ High strength increase with same cement content.
- ☒ Minimizing segregation and bleeding problems by improving cohesion.
- ☒ More durable grout as a result of reduction in permeability and lower water to cement ratio.
- ☒ Chloride free.

## COMPATIBILITY

KingAdd GS50 can be used with all types of cement and cement replacement materials. KingAdd GS50 is compatible with other KINGKRETE admixtures used in the same mix.

## METHOD OF USE

KingAdd GS50 should be added to the mixed cementitious grout (water + Bentonite slurry + cement) to achieve optimum performance.

## DOSAGE

The guidance dosage of KingAdd GS50 is 1.00 - 3.00 litre/ 100 kg of cementitious materials in the mix, including GGBFS, PFA or micro-silica.

Representative trials should be conducted to determine the optimum dosage of KingAdd GS50 to meet the performance requirements by using the materials and conditions in actual use.

## TECHNICAL PROPERTIES

Colour:	Brown liquid
Freezing point:	≈ -2°C
Specific gravity:	1.20 ± 0.01
Chloride content: BS5075	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

## SETTING TIME:

Although the setting time is dependent on the dosage of KingAdd GS50, the following factors should be considered:

- ☒ Retardation is increased with lower levels of tri-calcium in the cement.
- ☒ Lower temperatures will delay the setting time.
- ☒ SRC cement gives higher retardation levels than ordinary cement.
- ☒ Using more than one type of admixture in the same mix could affect the setting time.
- ☒ Retardation level is increased when cement replacement materials are used in the grout mix.

## CLEANING

KingAdd GS50 can be washed with fresh cold water.

## PACKAGING

KingAdd GS50 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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Ref: KK-01040-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.

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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](http://www.kingkrete.com)

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