

# KingAdd® 50AF

**Water reducing and antifreeze admixture.**

## DESCRIPTION

KingAdd 50AF is a concrete admixture in liquid form for producing concrete where temperatures are expected to go below freezing.

## APPLICATIONS

KingAdd 50AF is suitable for use in cold conditions such as:

- ☐ Slight daytime frost.
- ☐ Expected overnight frost.
- ☐ Expected cold period.

## ADVANTAGES

KingAdd 50AF provides the following properties:

- ☐ Improved workability without increased water.
- ☐ Reduction in water without loss of workability.
- ☐ Increased frost resistance.
- ☐ Improved strengths.
- ☐ Chloride free - does not attack reinforcement.

## COMPATIBILITY

KingAdd 50AF is compatible with other KINGKRETE admixtures used in the same concrete mix.

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

## STANDARDS

KingAdd 50AF complies with the following specifications:

- ☐ EN934-2.
- ☐ BS5075.
- ☐ ASTM C494, Type C and E.

## METHOD OF USE

KingAdd 50AF liquid is added to the mixing water prior to its addition to the concrete mix as the last component.

## DOSAGE

Dose at a rate of 1 – 2 kg/ 100 kg cement.

Exact quantity is determined by external temperature.

Dosages outside the typical ranges quoted above can be used to meet particular requirements.

## TECHNICAL PROPERTIES @ 25°C:

Colour:	Brown liquid
Freezing point:	-18°C
Specific gravity:	1.32 ± 0.02
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

## CLEANING

KingAdd 50AF spillage should be collected with a suitable absorbent such as sand or vermiculite and transferred in suitable container. KingAdd 50AF should not be allowed to enter sewers or open bodies of water.

If the spillage dries, the material is classified as ignitable waste. Dispose of in accordance with local environmental regulations.

## PACKAGING

KingAdd 50AF is available in 25 liters pails, 210 liters drums and 1000 liters 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.

## QUALITY AND CARE

All products originating from KingKrete's manufacturing



# KingAdd<sup>®</sup> 50AF

facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

\* Properties listed are based on laboratory-controlled tests.

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## AD-50AF-R3-2601

### 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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