

KingAdd[®] 100AF

Water reducing and antifreeze admixture.

DESCRIPTION

KingAdd 100AF is a multi-component concrete additive in liquid form for producing high quality concrete at very low temperatures. KingAdd 100AF is chloride free.

APPLICATIONS

KingAdd 100AF is suitable for use in cold conditions such as:

- ☐ Concrete casting at low temperatures.
- ☐ Expected overnight frost.
- ☐ Early concrete strength requirements.
- ☐ High strength concrete.

ADVANTAGES

KingAdd 100AF provides for the following:

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

COMPATIBILITY

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

STANDARDS

KingAdd 100AF complies with the following specifications:

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

METHOD OF USE

KingAdd 100AF can be added to the mixing water prior to its addition to the concrete mix, or dispensed separately after the addition on mixing water.

DOSAGE

Dosage of KingAdd 100AF will vary depending on cement content and outside temperature. Required dosage should be determined for each case.

Typical dosage is between 1 - 2 kg of cement content. Dosages outside the typical range given above may be used to meet particular requirements.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Brown liquid
Freezing point:	-18°C
Specific gravity:	1.33 ± 0.02
Chloride content: BS5075	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

CLEANING

KingAdd 100AF spillage should be collected by suitable absorbent like sand or vermiculite and transfer by suitable

container. KingAdd 100AF should not be allowed to enter sewers or open bodies of water.

Dispose of in accordance with local environmental regulations.

PACKAGING

KingAdd 100AF is available in 25 and 210 liters drums, and 1000 liters containers.

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 Qatar facility 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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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.

