

# KingAdd<sup>®</sup> 25UW

Anti-washout concrete admixture.

## DESCRIPTION

KingAdd 25UW is an under-water concrete admixture that increases concrete cohesion and minimizes washout, allowing for concrete to be placed under water.

## APPLICATIONS

KingAdd 25UW is suitable for:

- 🔧 Underwater concreting.
- 🔧 Fluid grouting that may have subject to washout.

## ADVANTAGES

KingAdd 25UW has the following properties:

- 🔧 Minimizes washout of cement and fine particles.
- 🔧 Reduces of concrete bleeding.
- 🔧 Reduces in segregation.
- 🔧 Allows longer transport and placing time.
- 🔧 Helps produce high quality well compacted concrete under water.

## COMPATIBILITY

KingAdd 25UW is compatible with all types of cements and cement replacement materials. Using of KingAdd 25UW with other types of admixture should be under control. If there is a need to use another types of admixture in the mix, contact our Technical Department for advice.

## METHOD OF USE

### Suggested Mix Proportions

- 🔧 Sand content 45 – 55% of the total aggregate weight.
- 🔧 A minimum of 360 kg of cementitious material per m<sup>3</sup> should be used.
- 🔧 A W/C ratio 0.45 or below is recommended.

### Method of Adding

KingAdd 25UW should be added after all the concreting ingredients have been batched and thoroughly mixed at the transit mixer. KingAdd 25UW can be added either at the batch plant or the job site. The transit mixer should be mixed for 5 – 10 minutes at high speed.

## TECHNICAL PROPERTIES

Colour:	White fine powder
Chloride content: BS5075	Nil
Bulk density:	550 – 600 kg/ m <sup>3</sup>
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

## DOSAGE

KingAdd 25UW has a range of 0.6 - 0.8% by weight of cement. Dosage outside the typical range quoted above can be used to meet particular requirements.

### Washout Resistance

Using KingAdd 25UW, cement washout is expected to be reduced to about 20% of the same mix without KingAdd 25UW. Washout is determined by CRD-C61 test method for determination the resistance of freshly mixed concrete.

### Concrete Placement

Concrete containing KingAdd 25UW can be pumped easily or tremied into place. Placement of concrete should be continuous to avoid the free fall of the concrete through water during placement.

<b>Ordinary Portland Cement (OPC):</b>		380 kg/ m <sup>3</sup>
<b>20 mm Aggregate:</b>		750 kg/ m <sup>3</sup>
<b>10 mm Aggregate:</b>		370 kg/ m <sup>3</sup>
<b>Fine Sand:</b>		675 kg/ m <sup>3</sup>
<b>Dosage of KingAdd 25UW % by weight of cementitious:</b>	Control 0%	0.7
<b>W/C:</b>	0.44	0.45
<b>Slump:</b>	200 mm	220 mm
<b>Washout:</b>	30%	7%
<b>Compressive strength:</b>	@ 1 day 17 MPa @ 7 days 45MPa @ 28 days 52 MPa	12 MPa 40 MPa 49 MPa

## CLEANING

Spillages of KingAdd 25UW will get when in contact with moisture and should therefore be removed in the dry state.

## PACKAGING

KingAdd 25UW is available in 6 kg bags supply.



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## 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 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.

® = Registered trademark of the KingKrete-Group in many countries.

## AD-25UW-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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