KingMix® 136SP

High range water-reducing admixture for concrete screed with extended workability retention.

DESCRIPTION

KingMix 136SP is a high range water-reducing admixture formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used to produce a ready-mix concrete screed with excellent workability retention as well as high early and final strength developments.

APPLICATIONS

- For the production of highly durable concrete screed.
- Recommended for high strength concrete mixes.
- Improved cohesion allows for use in mass concrete pours and filing.
- To produce high quality concrete of improved durability and water tightness.

ADVANTAGES

- Allowing for high strength concrete production without excessive cement contents.
- Improved workability reduces placing and compaction problems.
- Cement saving without affecting strength.
- Minimising segregation and bleeding problems by improving cohesion.
- More durable concrete as a result of reduction in permeability and lower water to cement ratio.

COMPATIBILITY

KingMix 136SP suitable to use with all types of Portland cement and cement replacement materials. KingMix 136SP is compatible with other KINGKRETE admixtures used in the same concrete mix.

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

STANDARDS

KingMix 136SP complies with the requirements of ASTM C494 as a Type A and G admixture, depending on the used dosage.

METHOD OF USE

KingMix 136SP should be added to the concrete with the mixing water to achieve optimum performance. An automatic dispenser should be used to dispense the correct quantity of KingMix 136SP to the concrete mix.

TECHNICAL PROPERTIES

Colour:	Brown liquid
Specific gravity:	1.25 ± 0.03
pH:	5 - 7
Chloride content: EN 934-2	Chloride free

DOSAGE

The recommended dosage of KingMix 136SP is 0.3 -1.2 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of KingMix 136SP to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVER DOSAGE

Overdosing of KingMix 136SP will cause the following:

- Significant increase in retardation.
- Increase in workability.

Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

SETTING TIME

Although the setting time is dependent on the dosage of KingMix 136SP, 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 level than ordinary cement.
- Using more than one type of admixture in the same concrete mix could affect the setting time.
- Retardation level is increased when cement replacement materials are used in the concrete mix.

CLEANING

Clean KingMix 136SP with fresh cold water.

PACKAGING

KingMix 136SP is available in 25 litre jerrycan, 210 litre drums and 1000 litre bulks 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 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.
® = Registered trademark of the KingKrete-Group in many countries.

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KingKrete Middle East
Qatar – Syria
www.kingkrete.com