

# KingMix<sup>®</sup> 1000PC

## Special hardening accelerator for cementitious materials

### DESCRIPTION

KingMix 1000PC is a chloride-free special nano technology hardening accelerator, formulated to improve cement hydration process of early ages (6 - 18 hrs) at low and normal temperature with no effect on ultimate strength.

### ADVANTAGES

- ☐ Accelerating early strength at different curing temperatures.
- ☐ Shortening CSH (calcium silicate hydrate) formation time using nano particles.
- ☐ In precast industry increasing early strength allows faster rotation of molds to increase production per day.
- ☐ Lower risk of delayed ettringite formation.
- ☐ Earlier stripping and reuse of forms increases labor productivity.

### COMPATIBILITY

KingMix 1000PC can be used with all types of Portland cement and cement replacement materials. Hyperplast Fast is compatible with other KINGKRETE admixtures when used in the same concrete mix.

KingMix 1000PC has minimal plasticizing effect and needs to be used with other water reducing admixtures to achieve required consistency.

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

### METHOD OF USE

KingMix 1000PC can be added to the mixing water prior to its addition to the concrete mix, or dispensed separately after the addition of mixing water.

### DOSAGE

The guidance dosage of KingMix 1000PC is 1.5 to 3.5 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or micro-silica.

Trials should be conducted to determine the optimum dosage of KingMix 1000PC to meet the performance requirements by using the materials and conditions in actual use.

### TECHNICAL PROPERTIES @ 25°C:

Colour:	Milky
Specific gravity:	1.21 ± 0.03
Chloride content: BS 5075	Nil

Temperature °C/°F	Testing time	Enhancement in Compressive strength compared to control sample
1/33	@ 18 hr	115%
10/50	@ 12 hr	180%
	@ 18 hr	115%
25/77	@ 6 hr	425%
	@ 8 hr	365%

*Notes: 450 kg/ m<sup>3</sup>, Portland Cement CEM I 52.5 N, w/c for trials ranges from 0.30 to 0.35  
KingMix 1000PC dosage used was 2.7 - 3.0 ltr per 100 kg of cementitious materials in the mix.*

### CLEANING

KingMix 1000PC can be washed with fresh cold water.

### PACKAGING

KingMix 1000PC is available in 210 litre plastic 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



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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.

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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.

