

# KingKure® 100S

Easy to clean curing aid for concrete surfaces.

## DESCRIPTION

KingKure 100S is a liquid curing aid formulated from inorganic silicates.

KingKure 100S provides an excellent initial cure for concrete, then it begins to break down and naturally wear away from the surface to prepare concrete for coating with a multitude of protective and/or decorative top coats.

## APPLICATIONS

KingKure 100S is recommended for new form-work cast-in- situ concrete surfaces such as concrete walls, columns and for concrete floors.

Typical applications include:

Industrial plants.

- 📦 Factories.
- 📦 Warehouses.
- 📦 Garages.
- 📦 Precast Concrete.
- 📦 Shopping malls.
- 📦 Service stations.
- 📦 Parking lots and driveways.

## ADVANTAGES

- 📦 Easy to clean up, only needs a simple wash with clean water after surface application to prepare for covering or sealing.
- 📦 Contributes to the enhancement of the compressive strength of concrete at all ages.
- 📦 Single component.
- 📦 Easy application.
- 📦 Reduces efflorescence.
- 📦 Chloride-free.

## METHOD OF USE

### Substrate Preparation

#### Concrete surfaces:

After troweling, cure freshly placed concrete with moisture or sheet membranes.

KingKure 100S must be applied at least 24 hours after concrete placement.

For other concrete vertical elements, KingKure 100S can be applied directly after de-shuttering.

## TECHNICAL PROPERTIES

Appearance:	Clear or white liquid
Specific gravity:	1.1 ± 0.1 for clear 1.2 ± 0.1 for white
Solids by weight:	25 ±1% for clear 30 ±1% for white
Abrasion resistance: (1000 g, 250 cycle) ASTM D4060, H22 wheel enhancement over untreated concrete	> 63%

## KingKure 100S Compressive Strength Enhancement Over:

Curing method	@ 7 days	@ 28 days
Wet curing:	66%	40%
Film forming curing compounds:	50%	32%

## Application

KingKure 100S is ideally suited for treating surfaces which are to receive subsequent coatings.

KingKure 100S white should be washed with water before applying further layers. KingKure 100S should be spray applied at an application rate of 4 - 7 m<sup>2</sup>/liter per coat.

## LIMITATION

- 📦 Coverage may vary with application method, surface conditions, and porosity.
- 📦 KingKure 100S is not a surface retarder. Do not apply during the final troweling operations as discoloration may occur.
- 📦 KingKure 100S's minimum application temperature is 5°C and maximum is 35°C.

## CURING

Under conditions of excessive heat or drying wind, polyethylene sheet may be used to cover the surface after application of KingKure 100S.

The polyethylene sheet can be reused since it does not stick to the surface.

## CLEANING

Tools and equipment can be cleaned with clean cold water.



# KingKure<sup>®</sup> 100S

## PACKAGING

KingKure 100S is available in 25 litre pails and 200 litre drums.

## COVERAGE

The coverage is 4 - 7 m<sup>2</sup>/ litre per coat. Where two coats are required to ensure maximum densification; the second coat should be applied after 2 - 3 hours of applying the first coat.

## 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.

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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.