

# KingKure<sup>®</sup> 100A

## Multipurpose resin based concrete curing compound

### DESCRIPTION

KingKure 100A is a single component, acrylic resin based, coating designed to impregnate concrete surfaces combining the benefits of a curing aid and hardener. KingKure 100A is designed to overcome drawbacks of many commonly used curing membranes that tend to provide a limited service life following the curing period of new concrete. It has good abrasion resistance and is compatible with several types of coatings.

### APPLICATIONS

KingKure 100A is mainly used for newly cast concrete and cementitious surfaces to retain sufficient moisture to ensure full hydration of the cement. Typical application areas include:

- ▣ High rise construction to eliminate water curing.
- ▣ Runways and roads.
- ▣ Roof decks.
- ▣ Retaining walls.
- ▣ Irrigation canals.
- ▣ General floor slab and columns.
- ▣ All Cement based coloured plasters.

### ADVANTAGES

- ▣ Recoatable.
- ▣ Non-degradable, single component.
- ▣ Enhanced concrete durability.
- ▣ Increase the surface abrasion resistant by 60%.
- ▣ UV resistance.
- ▣ Helps achieve concrete desired strengths.
- ▣ Minimizes potential surface cracking and shrinkage.
- ▣ Promotes a harder dust free surface.
- ▣ Can be spray applied to reduce labor cost.

### OVERCOATING

KingKure 100A can be over coated with the following:

- ▣ Polymer modified cementitious paint.
- ▣ Acrylic paints.
- ▣ Some epoxy based coatings that are not dependable on penetration for surface bond.
- ▣ Bituminous emulsion paints.

*Note: consult with KINGKRETE's Technical Department to check if a certain epoxy coating from KINGKRETE can be applied over KingKure 100A.*

### TECHNICAL PROPERTIES @ 25°C:

|                                     |              |
|-------------------------------------|--------------|
| Colour:                             | Clear liquid |
| Specific gravity:                   | 0.9 ± 0.05   |
| Cure time at 50% relative humidity: |              |
| Tack free                           | 3 - 4 hr     |
| Full cure                           | 24 hr        |
| Curing efficiency: BS 7542          | > 75%        |
| Water retention: ASTM C156          | Pass         |

### STANDARDS

KingKure 100A complies with AASHTO M148 and ASTM C309, Type I, Class A and B.

### METHOD OF USE

KingKure 100A should be spray applied as soon as possible to the fresh concrete, provided that the surface water has evaporated. Do not apply if bleed water is forming, or is present on the concrete surface.

Stir KingKure 100A well before use to ensure even pigment dispersion. KingKure 100A should be spray applied, the spray nozzle should be held approximately 450 mm from the concrete surface and passed back and forth to ensure complete coverage. Pump pressure should be maintained to give an even, fine spray.

The applied film should be protected from rain for at least 3 hours; care should be taken to ensure that the film is not broken.

In case of formed concrete, KingKure 100A should be applied immediately after de-shuttering. In such a case the concrete surface must be dampened with clean water prior application of KingKure 100A.

### REMARKS

KingKure 100A minimum application temperature is 5°C.

KingKure 100A can be applied on dry and old mineral substrates as a sealer and protective abrasion resistance coat. Doing this will result in deepening the substrate colour with semi-gloss finish.

Water based curing compounds are also available from KINGKRETE.



# KingKure<sup>®</sup> 100A

## CLEANING

Tools and equipment can be cleaned with soaped water when wet. Dried KingKure 100A should be removed with KINGKRETE Solvent.

## PACKAGING

KingKure 100A is available in 4, 18 and 200 litre drums.

## COVERAGE

The recommended coverage rate is 2.5 - 4.5 m<sup>2</sup> per litre.

## 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.

### KKK-NA-01.2-KR-100A-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.