



# KingKure<sup>®</sup> 80W

## Water based paraffin dispersion concrete curing compound

### DESCRIPTION

KingKure 80W is a water based curing compound formulated from selected emulsified paraffins to form a low viscosity wax emulsion.

KingKure 80W is supplied as a white liquid which forms a wet white film when applied to concrete surfaces. This dries to form transparent film which retains sufficient moisture in the concrete to ensure full hydration of the cement, which is essential for optimum strength development.

KingKure 80W white is also available, which at recommended coverage rates gives a daylight reflectance value of 60 - 80% to reduce surface heat gain.

### APPLICATIONS

KingKure 80W is used mainly for newly cast concrete and cementitious surfaces to retain sufficient moisture to ensure full hydration of the cement. Typical application areas include:

- Runways and roads.
- Roof decks.
- Retaining walls.
- Irrigation canals.
- Concrete floors.

### ADVANTAGES

- Helps achieving concrete desired strengths.
- Minimizes potential surface cracking and shrinkage.
- Promotes a harder dust free surface.
- Available in white pigmented grade for solar reflection.
- Single component.
- Can be spray applied to reduce labor cost.

### STANDARDS

- KingKure 80W complies with AASHTO M148 and ASTM C309, Type I and 2, Class A.
- Water retention ( $\text{kg} / \text{m}^2$ )  $< \text{or} = 0.55$ .
- KingKure 80W is suitable for use in contact with potable water when tested in accordance to BS 6920.

### METHOD OF USE

KingKure 80W 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 80W well before use to ensure even pigment dispersion. KingKure 80W 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 80W should be applied immediately after de-shuttering. In such a case the concrete surface must be dampened with clean water prior application of KingKure 80W. Dry surfaces may prevent correct film formation and cause absorption of the KingKure 80W into the concrete surface, which may lead to staining and difficulty in later degradation and removal.

### REMARKS

- It is important that complete removal of the KingKure 80W is ensured prior to the application of any surface finishes or additional surface treatments.
- KingKure 80W can be removed by using high pressure steam, water jetting or light sand blasting.
- It is recommended to use KingKure 100A where the concrete is to receive a coating or further surface treatment.
- KingKure 80W minimum application temperature is 5°C.
- Solvent based curing compounds is also available from KINGKRETE.

### CLEANING

Tools and equipment can be cleaned with soaped water when wet. Dried KingKure 80W should be removed with KINGKRETE Solvent



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## PACKAGING

KingKure 80W is available in 25 litre pails and 200 litre drums.

## COVERAGE

The recommended coverage rate is 3 - 4 m<sup>2</sup>/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 Qatar facility 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.

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## 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.