



# KingCoat<sup>®</sup> K

**Water repellent impregnation based on water borne silicone.**

## DESCRIPTION

KingCoat K is a transparent, ready for use, single component, water based silicone used to impart water repellency for mineral construction materials.

## APPLICATIONS

- KingCoat K provides outstanding early water repellency and protection from weathering to natural stones, clays, terracotta, bricks, sandstone, limestone, aerated concrete, insulating materials, gypsum and gypsum-based fiber boards.
- KingCoat K is also suitable to be applied immediately on manufactured low-fired clay products such as roof tiles, floor tiles, and flower pots.

## ADVANTAGES

- Good penetration into substrate.
- Provides excellent water repellency to a wide variety of substrates.
- Excellent reduction of water intrusion.
- Excellent resistance to UV light.
- Increases considerably freeze thaw resistance.
- Minimizes efflorescence.
- Breathable, allows for water vapour release.
- Very good resistance to dust and dirt pick-up.

## LIMITATIONS

- KingCoat K is not suitable for polished and glazed surfaces.
- KingCoat K can cause a white deposit on the surface of colored construction materials.
- KingCoat K cannot be applied on surfaces previously treated with water repellent materials.
- KingCoat K is not recommended for application on new and reinforced concrete.

## METHOD OF USE

### Surface Preparation

Surface must be clean, sound and free from oil, grease, curing compound, or any contamination. Any contaminants should be removed by light grit blasting. Water jet is then used as the end step of substrate cleaning.

## TECHNICAL PROPERTIES

Appearance:	Clear
Specific gravity:	1.01 ± 0.005
Water absorption resistance compared to untreated stone sample:* ASTM C642, 24 hr immersion	> 300% improvement in water resistance
UV resistance: ASTM C1315	No yellowing or deterioration
Depth of penetration in stone: * EN1504-2	3.5 mm
VOC:	< 10 g/ltr

*\*Results may differ depending on type of stone and its porosity.*

*Note: Avoid the use of acidic or alkaline chemical detergents and cationic surfactants. If detergents are used for cleaning, it is necessary to rinse well the cleaned surface by water in order to remove any detergent residue.*

### Application

It is recommended to apply two consecutive coats of KingCoat K at the stated rate of application with a maximum recoat time of 10 minutes, or one flood coat. Impregnation can be carried out using airless spray machine, brush, or roller.

### Notes:

- KingCoat K should not be applied on glass, wood, plastic, aluminum and metals. Rinse immediately with water in case of accidental exposure.
- KingCoat K should not be applied when rain is forecasted within 24 hours. Wait at least 24 hours after rain or water cleaning.
- Be sure that impregnated surfaces by KingCoat K are not exposed to water and rain for at least 8 hours after application. Allow the treated surface to dry for at least 24 hours to develop maximum water repellency.
- DO NOT USE DETERGENTS** for cleaning impregnated surfaces by KingCoat K, washing occurs only by water.



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## CURING

The water repellent properties fully develop in approximately 24 hours @ 25°C.

## CLEANING

Tools and equipment can be cleaned with water when wet.

## PACKAGING

KingCoat K is available in 20 litre plastic pails and 200 litre plastic drums.

## COVERAGE

0.1 - 0.4 litre per m<sup>2</sup> depends on the porosity of the substrate.

## 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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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.

