KINGKRETE®
We Create Future

KingCoat® WRC

Water-borne siloxane water repellent impregnation, supplied as a concentrate, for mineral surfaces.

DESCRIPTION

KingCoat WRC is a water-dilutable, amino-modified siloxane water repellent supplied as a concentrate. It penetrates mineral-based substrates and reacts to form a highly water-repellent (hydrophobic) surface with a strong beading effect, while remaining open to water-vapour diffusion. As it does not block the pores, the treated surface stays breathable and its appearance remains largely unchanged.

Being a concentrate, KingCoat WRC is diluted with water on site – typically between 1:5 and 1:20 by volume, according to the absorbency of the substrate – making it highly economical in use. It is free from fluorocarbons and free of MIT.

USES

KingCoat WRC is especially recommended for the water-repellent surface protection of mineral-based substrates, including:

- Brick and clinker masonry
- Cement-based construction materials and concrete
- Lime-sandstone and natural sandstone
- Marble and granite
- Mineral facades and surfaces requiring water repellency

KingCoat WRC is also suitable for the impregnation of glass, varnishes, leather and wood.

ADVANTAGES

- Substantially reduces capillary water absorption
- Generates high surface hydrophobicity with an excellent beading effect
- Good water-vapour permeability – the surface remains breathable
- Does not clog or block the pores of the treated surface
- High durability
- Water-dilutable and economical in use
- Free from fluorocarbons and free of MIT

TECHNICAL PROPERTIES

Chemical basis	Amino-modified siloxane
Appearance	Clear to slightly turbid liquid
Active content	Approx. 15 %
pH value (10% in water)	4.5 ± 0.5
Ionic character	Slightly cationic
Dilution ratio	1:5 to 1:20 with water
Application temperature	+5°C to +30°C
Shelf life (concentrate)	6 months

METHOD OF USE

Surface Preparation

Surfaces to be treated must be clean, sound and dry, and free from dust, laitance, oil, grease, efflorescence and other loosely adhering material. Carry out any necessary repairs and allow them to cure before application.

Dilution

Stir KingCoat WRC before use. Dilute with clean water; it may be diluted in any ratio. As a general guide, dilute 1 part KingCoat WRC with 5 to 20 parts water (1:5 to 1:20) according to the absorbency of the substrate, and establish the optimum dilution by trials on a representative area. For greater dilution stability, adjust the dilution water to a pH of approximately 4.0 – 5.5 using acetic, glycolic or phosphoric acid; citric acid must not be used.

Application

Apply the diluted KingCoat WRC to the prepared, dry surface by brush or low-pressure flood spray, working from the bottom upwards and maintaining a wet edge to achieve uniform saturation. Do not apply in direct sun, during rain, or when rain is expected within a few hours of application.

COVERAGE

Coverage depends on the porosity of the substrate and the dilution used and should be confirmed by trial. As a guide, expect approximately 4 – 8 m² per litre of diluted material per coat on typical masonry.

CLEANING

Clean tools and equipment with water immediately after use. Cured product and accidental contamination can be removed with non-polar solvents.

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PACKAGING

KingCoat WRC is available in 25 litre and 200 litre drums.

STORAGE

Store in unopened original containers in cool, dry conditions between +5°C and +30°C, protected from frost and direct sunlight. KingCoat WRC is sensitive to frost – irreversible changes occur if it freezes. Under these conditions the shelf life of the concentrate is at least 6 months from the date of manufacture. Prepared dilutions remain usable for at least 12 months provided they contain sufficient preservative. Slight turbidity may develop on storage but has no effect on performance; stir before use.

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with the eyes, mouth, skin and foodstuffs. Treat any splashes to the eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use and store safely. Use in well ventilated areas and avoid inhalation of spray mist.

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 Middle East facility are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, ISO 14001 and ISO 45001.

* 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.

KingKrete Middle East
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