

KingCoat[®] WR

Water repellent impregnation based on water borne Silane/Siloxane.

DESCRIPTION

KingCoat WR is a water based, ready for use, single component, water repellent impregnation for application on vertical or steeply sloping concrete, mineral-based natural and artificial stone, cementitious substrates, mineral plasters and mineral paints.

APPLICATIONS

KingCoat WR provides excellent water repellency and protection from weathering to vertical or steeply sloping concrete, mineral-based and artificial stone, cementitious substrates and mineral paints.

KingCoat WR can also be used for injection into walls to prevent rising damp.

KingCoat WR can be used as moisture barrier primer that is recoatable with water and solvent borne paints.

ADVANTAGES

- ☞ Good penetration into substrate.
- ☞ Good reduction of water and chloride intrusion.
- ☞ Excellent resistance to alkalis and UV light.
- ☞ Increases freeze thaw resistance.
- ☞ Minimizes efflorescence.
- ☞ Breathable, allows for water vapour release.
- ☞ Very good resistance to dust and dirt pick-up.

STANDARDS

KingCoat WR complies with the requirements of EN 1504-2 Surface Protection Systems for Hydrophobic Impregnation (H) Principles 1.1, 2.1 and 8.1.

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 jets is then used as the end step of substrate cleaning.

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.

TECHNICAL PROPERTIES @ 25°C:

Specific gravity:	1.00 ± 0.02	
Viscosity: (Brookfield, N ₁ S ₂₀)	< 5 cP	
Rapid chloride permeability: ASTM C1202	Medium	
ISAT: BS 1881, Part 208:1996 (replaces BS 1881, Part 5:1970)	< 0.1 ml/m ² /sec, after 60	
VOC: ASTM D2369	< 10 g/ltr	
Performance characteristics	EN 1504-2 requirement	Measured value
Depth of penetration: EN 1504-2, Table 3	Class I <10mm Class II ≥10mm	≤ 4 mm (Class I)
Drying rate coefficient: EN 13579	Class I > 30% Class II >10%	≥ 75% (Class I)
Water absorption: EN 13580	<7.5% compared to control untreated sample	≤4% (Pass)
Resistance to alkali: EN 13580	< 10%	≤ 9.3% (Pass)

Application

It is recommended to apply two consecutive coats of KingCoat WR at the stated rate of application, or one flood coat.

Impregnation can be carried out using airless spray machine, brush, or roller.

Notes:

KingCoat WR 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 WR are not exposed to water and rain for at least 12 hours after application.

DO NOT USE DETERGENTS for cleaning impregnated surfaces by KingCoat WR, washing occurs only by water.

CURING

The water repellent properties fully develop in approximately 72 hours @ 25°C.

CLEANING

Tools and equipment can be cleaned with water when wet.



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PACKAGING

KingCoat WR is available in 20 litre pails and 200 litre drums.

COVERAGE

0.1 - 0.4 litre/m² 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.

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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.