

# Repelicone K

Water repellent impregnation based on water borne silicone



## DESCRIPTION

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

## APPLICATIONS

- » Repelicone 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.
- » Repelicone 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

- » Repelicone K is not suitable for polished and glazed surfaces.
- » Repelicone K can cause a white deposit on the surface of colored construction materials.
- » Repelicone K cannot be applied on surfaces previously treated with water repellent materials.
- » Repelicone 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.

*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:

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.*

## APPLICATION

It is recommended to apply two consecutive coats of Repelicone 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:

- » Repelicone K should not be applied on glass, wood, plastic, aluminum and metals. Rinse immediately with water in case of accidental exposure.
- » Repelicone 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 Repelicone 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 Repelicone K, washing occurs only by water.

## CURING

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





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## CLEANING

Tools and equipment can be cleaned with water when wet.

## PACKAGING

Repelicone 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

Repelicone K should be stored under cover at a minimum ambient temperature of 5°C.

## SHELF LIFE

Repelicone K has a shelf life of 18 months from date of manufacture if stored in proper conditions and sealed drums.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## CAUTIONS

### HEALTH AND SAFETY

Care should be taken during use and storage to avoid contact with skin, eyes and mouth. Wear suitable protective clothing, gloves and eye/face protection.

Should accidental skin contact occur, remove immediately with plenty of clean water. If swallowed, seek medical attention immediately - do not induce vomiting.

For further information refer to the Material Safety Data Sheet.

## FIRE

Repelicone K is nonflammable.

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- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.



### Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.