

# Repelicone W

Water repellent impregnation based on water borne Silane/Siloxane



## Description

Repelicone W 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.

Repelicone W once applied will "bead" water and protect the substrate from water penetration.

## Applications

- ▲ Repelicone W provides excellent water repellency and protection from weathering to vertical or steeply sloping concrete, mineral-based and artificial stone, cementitious substrates and mineral paints.
- ▲ Repelicone W can also be used for injection into walls to prevent rising damp.
- ▲ Repelicone W can be used as moisture barrier primer that is recoatable with water and solvent borne paints.

## Advantages

- ▲ Excellent water beading effect.
- ▲ 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

Repelicone W 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.

### Technical Properties @ 77°F (25°C):

Specific gravity:	1.00 ± 0.02
Touch dry time:	1 - 2 hr
Viscosity: (Brookfield, N <sub>1</sub> S <sub>20</sub> )	< 5 cP
Rapid chloride permeability: ASTM D1202	Medium
ISAT: BS 1881, Part 208:1996 (replaces BS 1881, Part 5:1970)	< 0.1 ml/m <sup>2</sup> /sec, after 60 min
VOC:	< 10 g/ltr

Performance characteristics	EN 1504-2 requirement	Measured value
Depth of penetration: EN 1504-2, Table 3	Class I < 10 mm Class II ≥ 10 mm	≤ 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)

*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 Repelicone W at the stated rate of application, or one flood coat.

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

Don Construction Products Inc.  
2826 Lineberger Industrial Dr.  
Lancaster, SC 2970  
USA



# Repelicone W

## Notes:

- ▲ Repelicone W 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 W are not exposed to water and rain for at least 12 hours after application.
- ▲ DO NOT USE DETERGENTS for cleaning impregnated surfaces by Repelicone W, washing occurs only by water.

## Curing

The water repellent properties fully develop in approximately 72 hours @ 77°F (25°C).

## Cleaning

Tools and equipment can be cleaned with water when wet.

## Packaging

Repelicone W is available in 5 gal (18.9 liter) pails and 55 gal (208.2 liter) drums.

## Coverage

60 - 175 ft<sup>2</sup>/ gal (1.5 - 4.3 m<sup>2</sup>/liter) depending on the porosity of the substrate. As an estimation guide, the below table can be followed:

Substrate	Ft <sup>2</sup> / Gal	M <sup>2</sup> /Liter
Concrete	80 - 150	2.0 - 3.7
Brick	100 - 175	2.5 - 4.0
Stucco	80 - 150	2.0 - 3.7
Rough Stone	100 - 150	2.5 - 3.7
Smooth Stone	125 - 175	3.1 - 4.3
Concrete Block	60 - 100	1.5 - 2.5

## Storage

Repelicone W should be stored under cover at a minimum ambient temperature of 41°F (5°C).

## Shelf Life

Repelicone W has a shelf life of 12 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 advise.

## 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 W is nonflammable.

## More from Don Construction Products

A wide range of construction chemical products are manufactured by DCP which include:

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

**Don Construction Products Inc.**  
2826 Lineberger Industrial Dr.  
Lancaster, SC 2970  
USA

### 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.

