

# SILICONE WATERSEAL

## SOLVENT FREE MASONRY WATER REPELLENT

### SPECIAL PROPERTIES

- Penetrates deep into the substrates
- Fast acting
- Water based
- Low hazard
- Easy to apply by spray or brush
- Only one coat required

### DESCRIPTION

N-VIROL Silicone Waterseal is a water repellent liquid based on a solvent free silicone/siloxane emulsion for use on porous brickwork, cement renderings, cement/mineral boards, unglazed tiles, grouting, cast concrete, stonework (including those containing limestone) and pointing. When surfaces are treated with N-VIROL Silicone Waterseal they will remain permeable to vapour, so moisture in the structure can escape.

N-VIROL Silicone Waterseal is colourless and clear and does not usually affect the appearance of treated surfaces. Treated masonry will not prevent water penetration at pressures greater than 1.4kg / cm<sup>2</sup>.

### INFORMATION

Damp penetration causes patches of damp on exterior wall surfaces and in severe cases internal wall surfaces. This is caused by differences in the capillary absorption of masonry. Wall tie corrosion can be the result of this.

The surface layer of the masonry can be damaged by the effects of frost. When water in the wall expands, it sets up high pressures on the pore structure causing this problem.

Moss and mould growth can occur on the surface this will appear on wet surfaces.

White salts can sometimes show themselves on the surface. There are water soluble salts in the masonry that are particularly dissolved by the water and carried to the outside during drying forming crystals on the exterior surface. These salts will dissolve when it rains. Heat loss through a wet wall can be up to 3 times higher than

through a dry wall. Wet walls are cold walls and thermal insulation values are relative to the dampness of the wall. Treating surfaces with N-VIROL Silicone Waterseal can improve the exterior of the property as it can help prevent the accumulation of dirt.

### PREPARATION

Clean the surfaces to be treated, removing any dirt, grease, mould or fungus and any loose surface coatings. Mould release agents or decorative paints should be removed completely. Any structural defects such as mortar joints, re-pointing or rendering must be completed at least one month before application of N-VIROL Silicone Waterseal. The product will not be as effective if the treated surface has cracks or defective joints.

Where surface to be treated is contaminated with a lot of white salt coverage, it is unwise to treat the surface without seeking further advice.

To avoid residue splashes on wood, metal, window or door frames and glass these surfaces should be covered prior to using N-VIROL Silicone Waterseal. Plants should also be covered, preferably with plastic sheets.

NOTE: Before applying to the surface, first test a small area for compatibility with the substrate.

### APPLICATION

N-VIROL Silicone Waterseal can be applied to damp surfaces. Moving from top to bottom apply with a brush or low pressure spraying (avoid using a fine mist). Ideally N-VIROL Silicone Waterseal should only be applied when no rainfall is expected prior to drying the treated surface.

### COVERAGE

Coverage will depend mainly on the porosity of the surfaces to be treated, also the applying of a uniform coating of the N-VIROL Silicone Waterseal. 5 Litres will cover approximately 50m<sup>2</sup>.

Units 1-2, Holme Lane,  
Riverside Business Park,  
Rawtenstall, Rossendale  
BB4 6JB

Tel: 01706 212030 Fax: 01706 213737  
www.nvirol.co.uk sales@nvirol.co.uk



#### CLEANING

Remove any splatters on glass with household cleaner and clean equipment with water. Splashes should be removed as soon as possible as they will be extremely difficult to remove after a few days.

#### STORAGE

The product should be stored between 5°C and 25°C and for no longer than 12 months.

#### PACKAGING

N-VIROL Silicone Waterseal is available in 5 Litre or 25 Litre containers.

#### EFFECTIVENESS

N-VIROL Silicone Waterseal will become effective through moisture evaporation. Surface cure (beading) can occur within one hour under good drying conditions. In cold temperatures, with limited air movement and surface moisture contact may all extend the time taken for surface water repellence to develop.

Treated surfaces will remain permeable to water vapour allowing the surface to breathe.

#### LIMITATIONS

N-VIROL Silicone Waterseal is not recommended to be used in temperatures of 5°C or below.

N-VIROL Silicone Waterseal is designed as a final exterior coating. We do not recommend over-painting.

The product should not be used on structures under hydrostatic pressure.

#### HEALTH AND SAFETY

Information on the health and safety of the product is available from our N-VIROL Technical Department in the form of material safety data sheet.

#### TECHNICAL INFORMATION

This product is intended for use by professional contractors/specifiers and this data sheet is compiled accordingly. Further information and advice is available from N-VIROL Limited.

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