



# CL – WATER REPELLENT

## CLEAR PROTECTIVE DAMP PROOF SOLUTION

### DESCRIPTION

**CL-WATER REPELLENT** is an alkaline stable alkylalkoxy silane compound impregnation solution used to render porous, mineral material surfaces water-repellent. It is unlike the conventional coating system, which is only effective if the coating remained intact on the substrate without any mechanical scratch. On application the solvent will evaporate and the effective ingredient of CL-Water Repellent that penetrate deep into the substrate, will form a hydrophobic zone protect against moisture-induced damage.

### FIXES

Excellent for fresh concrete, masonry, brick, light weight concrete or plaster, joints roadway and bridge. Non-absorptive substrates such as polished marble / granite are not suitable for impregnation.

### FEATURES

- A great reduction in water absorption
- Protection against moisture-induced damage
- A high impregnation depth
- Prevention of soluble salt blooming
- Reduction of thermal conductivity
- Improvement in thermal insulation
- Non-tacky finish
- Prevents dirt build-up and algae growth
- Abrasion and ultra-violet resistant
- Reduction of fouling
- No visible colour change in the masonry

### TECHNICAL INFORMATION

Appearance : Clear liquid  
Specific Gravity : Approx. 0.79 @ 30°C  
Non-volatile Matter : Approx. 10%

#### Water Absorption Test:

Method of Evaluation : % of water absorbed  
Substrate Used : Slate

Time / Hour	Untreated Slate	Slated treated with CL-Water Repellent
1	0.92%	0.07%
2	1.08%	0.10%
3	1.18%	0.13%
4	1.26%	0.16%
5	1.31%	0.18%
6	1.36%	0.20%
24	1.83%	0.52%

Note: Test result can be varied according to different batch of slate.

### SURFACE PREPARATION

Facade of the substrate must be cleaned using water or steam jet. Salt blooming must be removed mechanically. Before treatment, substrate must be thoroughly air-dried. Fresh concrete surface and the joint mortar must have set, i.e. about 3-4 weeks prior to application.

### APPLICATION

Apply by airless spray or brush with sufficient or even excessive CL-Water Repellent to the surface to be treated so that it can penetrate deep into the facade. For spraying method, spraying distance should be 5 – 10cm away from the substrate surface in order to prevent from atomization.

Impregnation is only completed when the facade substrate is fully saturated with water repellent solution so that no further solution is absorbed with a period of one minute. Further impregnation may be necessary in case of very absorbent substrate.

### PENETRATION DEPT AND COVERAGE

Penetration depth depends on the absorbency of the facade substrate. For porous concrete, usually a minimum depth of 5mm could be achieved with coverage of 10 – 12 sq meter per litre by airless spray.

### DURABILITY

A facade that is treated with CL-Water Repellent has extremely long life, provided no chemical (both organic and inorganic) or mechanical damage occurs to the treated substrate. A facade once impregnated can be re-impregnated at any time, as it does not give any wetting problems. However, a treated surface will not suitable for further coating on it.

### SAFETY MEASURES

Flammable! Keep away from heat, sparks and open flame.

### TOOLS CLEANING

Use kerosene or white spirit.

### SHELF LIFE

1 year when stored in cool and dry place, sealed in unopened container.

### PACKING

Available in 5 and 20 litre pail; 200 litre drum.

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Disclaimer: Specification are subject to change without notification.



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