



# VAPOR LOCK™ 0/0

## DESCRIPTION

A ready-to-use, clear, water-based transformative sealer designed for penetration through the application to the surface of concrete, above, on or below grade, interior or exterior.

## BASIC USES

Brushed, rolled or sprayed on concrete for vapor proofing, waterproofing, curing, sealing, hardening, dust proofing and weatherproofing. Closes the capillary system of concrete disallowing the intrusion of chemicals, salts or the extrusion of moisture from the slab. Protects concrete surfaces from abrasion, freeze-thaw damage and stops water seepage where it is not caused by cracking or other structural failure.

## TECHNICAL AND PRODUCT DATA

- Vapor Lock™ 0/0 penetrates deeply into the capillary pores of the concrete and crystallizes, becoming part of the concrete itself.
- Vapor Lock™ 0/0 will not change the appearance of the concrete surface to which it is applied.
- Vapor Lock™ 0/0 has been tested as a chemical hardener by the Schmidt hammer rebound test with the following result:
  - 10 year old slab
    - untreated: 13.8 MPa
    - No. of Components: One
    - one coat 470: 20.7 MPa
    - two coats 470: 31.7 MPa

## MAJOR ADVANTAGES OF VAPOR LOCK™ 0/0

- Increases concrete density and hardness
- Effective in reducing freeze-thaw spalling
- Prevents chemical intrusion, salts, gasoline, etc.
- Increases abrasion resistance
- Virtually eliminates corrosion of steel
- Effective as a negative side waterproofing against a hydrostatic head of over 35m
- Stops the route of MVE (moisture vapor emission)
- Allows the use of water-based moisture sensitive coatings and adhesives
- Improves the bonding of cementitious toppings, coatings and paints
- Solvent-free, odor-free, non-toxic and non-flammable
- Ultra-violet stability
- Treated surface is more resistant to water and de-icing salt intrusion



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## TECHNICAL AND PRODUCT DATA CONTINUED

- New Pour Treated 32 MPa ( 4641 psi)
  - one coat 470: 40 MPa (5801 psi)
  - Shelf Life 12 months at 5-24°C
- Packaging: 20L pails & 200L drum
- Pot Life: Indefinite
- Flash Point: None
- Clean-up: Water

## APPLICATION INSTRUCTIONS

Mix Vapor Lock™ 0/0 thoroughly before using and keep it agitated during use as the active ingredients are in suspension and will settle. Do not thin in any way.

Fresh Concrete - Vapor Lock™ 0/0 is applied to green concrete as soon as the surface water sheen has disappeared and the concrete can be walked upon. On vertical, formed surfaces, Vapor Lock™ 0/0 is applied as soon as the forms have been stripped.

Old Concrete - Surfaces to be treated should be swept or brushed clean and then tested for absorption by sprinkling water on them. If the water drops bead up and are not readily absorbed by the concrete, treat with SPG BDE 1001™—Bio-Degradable Etcher. This will open the capillaries and allow penetration of Vapor Lock™ 0/0. Vapor Lock™ 0/0 must be absorbed into the slab to be effective. Oil or other stains must be removed before applying Vapor Lock™ 0/0. Clean and prepare the surface per selected Tech Bulletin, contact manufacturer for direction.

## COVERAGE

Vapor Lock™ 0/0 is best applied by low pressure spray, although it can be applied with a roller or brush. Vapor Lock™ 0/0 is normally applied in two light coats, the second as soon as the surface is dry to the eye, with each coat averaging between 28 and 37 m<sup>2</sup>/L. If the application is in one coat, coverage should be about 1.75 m<sup>2</sup>/L. Absorption amounts will vary according to the porosity of the concrete. Contact manufacturer if application rates are not close to specified. For chemical hardening, for very porous concrete, or to maximize resistance to stains or mild acids apply a 2nd coat until the surface is saturated. The surface will show a light sheen when saturation is reached. A blooming or whitish deposit sometimes forms on the surface if ponded areas are left to dry. To avoid this blooming effect make sure that Vapor Lock™ 0/0 is not allowed to pond on the surface or flush the surface with clear water 30 to 45 minutes after application to remove any ponding residue. If residue remains after drying, brush with a stiff broom and dilute with Vapor Lock™ 0/0 to remove if necessary.



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## SPECIAL HANDLING

Do not spray or allow overspray on glass or aluminum, it causes etching. Any compound sprayed on glass or aluminum should be immediately rinsed off. Do not allow the product to puddle or allow water to stand on the surface immediately after application, it can leave a residue that is difficult to remove. Rinse the job thoroughly after application whenever possible and use lighter coats if necessary. If difficult residue is formed, try scrubbing with a stiff brush and water pressure, and if necessary, dilute the residue with more Vapor Lock™ 0/0. Tilt up slabs or other preformed units treated with Vapor Lock™ 0/0 and stacked in contact with one another may be bonded together unless a bond breaker is applied, after the Vapor Lock™ 0/0, over the surface that will be in contact. Vapor Lock™ 0/0 is compatible with most bond breaker systems, contact Manufacturer for additional information. Vapor Lock™ 0/0 should not be applied when ambient temperature is at or below freezing. Vapor Lock™ 0/0 should not be applied where rain or other water is running over the surface or while there are puddles of water on the surface or when rain is imminent. Do not allow Vapor Lock™ 0/0 to freeze and do not use any Vapor Lock™ 0/0 that has been previously frozen.

## SAFETY

Please refer to SDS at [spggogreen.com.au](http://spggogreen.com.au) or contact manufacturer as necessary.

## WARRANTY DISCLAIMER

The information herein is to assist customers with product selection. Our products are intended for sale to qualified industrial and commercial customers. Customers shall be responsible for inspection of product prior to use to determine suitability for and applicability to their application. Trial batch mixes are encouraged with certified ready mix providers. We warrant that our products will meet our written specifications. Nothing herein shall constitute a warranty expressed or implied, including any warranty of merchantability or fitness, nor is protection from any loss or patent to be inferred. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages. Project specific warranties are available for waterproofing and concrete durability.

Contact SPG prior to installation for project specific warranty registration and requirements.