Product Group: Vapor Lock™

Product Name: Vapor Lock™ 1

DESCRIPTION

A ready-to-use, clear, penetrating densifier designed for application to the surface of green or existing concrete, on, above or below grade, interior or exterior.

BASIC USES

Applied to concrete for sealing, hardening, dust proofing, waterproofing and weatherproofing. Protects concrete surfaces from abrasion, chemical resistance, freeze-thaw damage, spalling, ASR and acts as internal curing agent . Vapor Lock™ 1 is on occasion used as a pre-treatment for other topically applied Vapor Lock™ products.

MAJOR ADVANTAGES OF Vapor Lock™ 1

- Increases concrete density
- Increases concrete strength by 50-100%
- Effective in reducing:
  - Surface Cracking
  - Chemical Corrosion
  - Physical Abrasion
  - Spalling
  - Freeze thaw issues
  - Efflorescence
- Treatment is permanent and does not require subsequent re-application
- Effective as a negative side waterproofing
- Carbonation Control
- Effective pre-treatment for Vapor Lock™ 0/0, 5/5 &10/10
- Solvent-free, odor-free, non-toxic and non-flammable
- Improves the bonding of toppings, coatings and paints
- Ultra-violet stability

TECHNICAL AND PRODUCT DATA

Vapor Lock™ 1 penetrates deeply into the capillaries of concrete and reacts with components of hydrated cement to form a breathable barrier. **Vapor Lock™ 1** will not change the appearance of the concrete surface to which it is applied.

No. of Components	One
Packaging	5 gal pails & 55 gal drum
Pot Life	Indefinite
Shelf Life	12 months at 41-75°F (5-24°C)
Flash Point	None
Clean-up	Water

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APPLICATION INSTRUCTIONS

Vapor Lock™ 1 is best applied with a low pressure sprayer, although it can be applied with a roller or brush. Mix **Vapor Lock™ 1** thoroughly before using and keep agitated during use as the active ingredients are in suspension and will settle. Do not thin in any way.

Fresh Concrete - Vapor Lock™ 1 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™ 1** 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, the surface must have been previously coated or oiled and it must therefore be cleaned before **Vapor Lock™ 1** application. **Vapor Lock™ 1** must be absorbed into the slab to be effective. If the slab is non-absorptive treat with BDE-1001 from SPG.

COVERAGE

Vapor Lock™ 1 is normally applied in two light coats, the second as soon as the surface appears to be dry, with each coat averaging between 300 and 400 square feet per gallon (75 and 100sf/L). If the application is in one coat, coverage should be about 190 square feet per gallon (50 sf/L). Absorption amounts will vary according to the porosity of the concrete. For a harder surface apply one coat of **Vapor Lock™ 1** at the rate of 300 square feet per gallon (75 sf/L) followed by one coat of **Vapor Lock™ 0/0** at the rate of 300 square feet per gallon (75 sf/L). For chemical hardening, for very porous concrete, or to maximize resistance to stains or mild acids apply a 2nd coat of **Vapor Lock™ 0/0** 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™** 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™ 1** to remove if necessary.

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 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™ 1.** Tilt up slabs or other preformed units treated with **Vapor Lock™ 1** and stacked in contact with one another may be bonded together unless a bond breaker is applied, after the **Vapor Lock™ 1**, over the surfaces touching each other, contact Manufacturer for recommendation. **Vapor Lock™ 1** should not be applied when ambient temperature is at or below freezing. **Vapor Lock™ 1** 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™ 1** to freeze and do not use any **Vapor Lock™** that has been previously frozen.

SAFETY

Please refer to MSDS at www.spgGoGreen.com

WARRANTY DISCLAIMER

The information herein is to assist customers in determining whether our products are suitable for their application. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to the contents and suitability. 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.

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