



SPECIALTY  
PRODUCTS  
GROUP

# VAPOR LOCK™ PIA

## POROSITY INHIBITING ADMIXTURE

### DESCRIPTION

Vapor Lock™ Porosity Inhibiting Admixture (PIA) is a ready to use concrete admixture that when properly utilized makes concrete water and vapor proof. Vapor Lock™ PIA, made up of Potassium Silicate, reacts with the calcium hydroxide created by the Portland cement reaction with water to form, additional calcium silicate hydrate gel. This chemical reaction is similar to other pozzolanic materials such as fly ash, GGBFS and silica fume, but enhanced to create a more energetic and predictable reaction. Vapor Lock PIA contains no sodium silicate, chloride or chlorine.

### BASIC USES

Vapor Lock™ PIA is used in applications where it is desirable to bond moisture sensitive coatings and adhesives to any concrete surface including flooring, roofing, fluid applied air barriers or below grade water proofing. predictable.

### MAJOR ADVANTAGES OF VAPOR LOCK™ PIA

- Allows for the installation of moisture sensitive coatings & adhesives within the construction schedule
- Warranted labor & material replacement in the event of a moisture related failure
- Provides a comprehensive risk management tool for all stakeholders
- Warranty is underwritten by Lloyd's of London for each project with a 3rd party insurance policy
- No topical moisture treatments are necessary
- Tremendous cost & schedule savings
- Increased concrete density & hardness
- Increased abrasion resistance
- Improves Freeze-Thaw Spalling
- Virtually eliminates Delamination
- Improves Durability

### TECHNICAL & PRODUCT DATA

- Appearance: Clear
- Odor: None
- Toxicity: None
- Flammability: None
- Dosage Rate 10 oz/cwt of cm
- Shelf Life: 1 Year
- Weight: 11 lbs per USG
- Freeze Temp: 32 F
- Storage Temp: 35-75 F
- Solvent: None, water based
- Acid Resistance: Excellent
- Hazardous Vapors: None
- Capillary Break: Integral C-S-H
- Installation: All cementitious materials
- Number of components: 1
- Packaging: 330 USG Totes, 275 USG Totes, 55 USG Drums, 5 USG Buckets



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## APPLICATION INSTRUCTIONS

Cast-in Place, Normal Weight Concrete-Vapor Lock™ PIA standard dosage is 10 ounces per 100 weight of cementitious materials and should be added with the head water for the best results. Contact your SPG representative for dosage rate verification or if introduction with the head water is not possible/practical. This dose needs to be accurate to minus 0% to plus 3%. Vapor Lock™ PIA must be added to concrete by a ready mix or pre-cast provider that is certified by SPG to utilize this material.

## SPECIAL HANDLING

Do not allow the product to freeze. Discard any frozen or separated product.

## SAFETY

Please refer to SDS at [www.spggogreen.com](http://www.spggogreen.com) or contact SPG.

## PROJECT SPECIFIC WARRANTY

Project specific Warranties are available for moisture sensitive coatings and adhesives such as flooring or roofing.

All SPG warranties are underwritten by a Lloyd's of London policy in the amount of \$20,000,000.00 CAD. For more information, contact your SPG representative.

## 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.



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