

# PHASE II

FOR ENHANCING SURFACES SEALED WITH V-SEAL 101 & V-SEAL 102

## TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION

V-SEAL® 101 & 102 will wear away only when the substrate itself wears away to the lowest penetration of the sealer. However, science has revealed new means to enhance lasting benefits and restore like-new benefits to worn substrates previously sealed with V-SEAL® 101 or 102. V-SEAL® PHASE II is specifically formulated as a secondary application to V-SEAL® 101 or 102. It contains a molecular structure that is significantly smaller than V-SEAL® 101 or 102, which by itself cannot match the sealing power of V-SEAL® 101 or 102. However, combining the two molecular structures increases substrate strength, moisture repellence and stain resistance - similar to filling a container with golf balls, then filling it again with bb's.

Phase II is a colorless, odorless water-based solution of specialized reactive chemicals that penetrate concrete surfaces to seal, densify and harden the material. PII is a water based product and as a result is V.O.C. compliant and environmentally safe to use. PHASE II penetrates into the concrete surface and undergoes a chemical reaction that turns the concrete substrate into a hardened, more densified mass. Surfaces treated with PHASE II are not only more abrasion resistant, but are more resistant to chemicals and water than untreated concrete.

### RECOMMENDED USES

Phase II is premium product designed to enhance the repellent characteristics of V-SEAL® 101 or 102. It is ideal for all substrates previously sealed with V-SEAL® 101 or V-SEAL® 102.

### PRODUCT CHARACTERISTICS

- Long term protection
- Seals, hardens and reduces dust
- Resists salt, freeze/thaw, chemicals
- Will not scratch or peel
- Environmentally safe
- Water-based, V.O.C. compliant
- No odor, no fumes
- Follows USDA guidelines for accidental food contact
- Does not alter appearance or traction

### PERFORMANCE STANDARDS

Specific Gravity:	1.2
Film:	0
Flash Point:	None
V.O.C. Content:	0 gm/liter
Skid Resistance:	Good
Depth of Penetration:	5mm into concrete
Water Absorption:	ASTM C-642 = 3.4% in 24 hours
Compressive Strength:	ASTM C-140
Concrete treated with Phase II	- 3,910 psi (27MPa) average
Untreated concrete	- 3,461 psi (23.9 MPa) average
Water Vapor Transmission Rate	- 217 grams/sq. ft. - 24 hours

### \*COVERAGE RATE

300-600 ft.<sup>2</sup> per Gal (when applied after V-SEAL® 101 or 102)

\*Coverage rate is for estimating purposes only. Application rate is based upon porosity and absorption. Always test absorption prior to application. When properly applied product should create a wet surface sheen and absorb within 1 minute without puddles. Immediately disperse puddles. Excessive application may result in white residue which will not affect sealer performance and generally dissipates over time, but may be removed immediately with abrasion.

### FINISH

Flat/Clear

### PACKAGING

1 gallon jugs, 5 gallon pails, 50 gallon drums

### STORAGE & SHELF LIFE

Two years unopened when stored in a cool, dry area without freezing.

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TECHNICAL DATA SHEET

## APPLICATION & USAGE:

Apply only when temperatures are above 40°F (4°C). Avoid contact with glass, aluminum and polished metal surfaces. If contact occurs, wash immediately with water.

New Concrete: Apply at any time after 24 hours to new concrete cured with V-SEAL® 101 or 102. Superior results will be obtained if applied after 7-14 days.

Old Concrete/Masonry: Apply to substrates previously sealed with V-SEAL® 101 or 102. Always test small area for porosity. All surfaces to be treated must be clean and sound. Remove all membrane forming curing compounds, sealers, oil, grease, dirt and other contaminants. For best results, remove any concrete laitance and patch or fix all cracks and damaged areas. Apply PHASE II to point of rejection by sprayer, roller, broom, or mechanical scrubber. For superior results, work-in to a manageable area with roller, broom, or mechanical scrubber. Thoroughly remove excess material to avoid chalk residue. Residue will not affect performance of sealer and dissipates with normal wear. Extremely porous or rough surfaces may require additional applications.

## DRY TIME\*

\*Drying Time:

Dry to Touch	2-4 hours
Traffic	6-12 hours

\*Dry time is for estimating purposes only and is completely dependent on temperature and humidity

## CLEANUP

Rinse overspray off surfaces not meant to be sealed with clean water. Clean tools with soap and water immediately after application.

## REGULATORY

Phase II complies with EPA, FDA and OSHA requirements, contains no solvents, and 0 g/L Volatile Organic Compounds (VOC). This product is considered a non-hazardous chemical under DOT (49CFR) and OSHA Hazard Communication Standard (29CFR 1910.1200).  
Transportation Class: 55.

## SAFETY & FIRST AID PRECAUTIONS

- Read SDS before using product.
- Surfaces may be slippery until dry.
- Do not ingest.

In case of ingestion, CALL A PHYSICIAN immediately. DO NOT induce vomiting. If splashed in the eyes, flush thoroughly with clean water for a minimum of 15 minutes. CALL A PHYSICIAN immediately. May cause irritation to the skin. If brought into contact with the skin, wash thoroughly with soap and water. Reseal container after each use.

## KEEP OUT OF REACH OF CHILDREN

## LIMITATIONS

Ponded or puddled material should be squeegeed, brushed, or removed, otherwise white residue may appear on the surface. If white residue starts to appear on the surface during drying, immediately remove with hot water and scrubbing. Surfaces may be slippery during application. If PHASE II is accidentally applied to glass, aluminum or polished metal, immediately rinse with water to prevent etching.

Phase II is designed to work only on porous masonry substrates and is not intended for asphalt. This product may etch glass, vinyl, and metal. Avoid contact with eyes and skin. Phase II may be damaged if frozen prior to use. Not intended to seal cracks of more than 1/16 inch. V-SEAL Concrete Sealers (V-SEAL) solely and expressly warrants that its products shall be free from defects in materials and workmanship. V-SEAL MAKES NO OTHER WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR USE OF ITS PRODUCTS. Product descriptions, illustrations, or demonstrations, if any, are for illustration purposes only and do not constitute a warranty or warranty alteration. Upon purchase, handling, storage, and application of V-SEAL products is beyond control of the company. V-SEAL specifically does not warranty performance results. The purchaser should conduct a test prior to application and shall be solely responsible for determining the suitability of V-SEAL products for the purchaser's intended purposes. V-SEAL shall bear no liability, other than the replacement of the defective product. The purchaser shall have no claim for incidental or consequential damages.

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