V-SEAL® PHASE II

For enhancing surfaces sealed with V-SEAL® 101 & 102

Revised 7/09

Product Description

V-SEAL® 101 & 102 Sealers 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 (PII) 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.

PII 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 a premium product for re-sealing substrates previously sealed with V-SEAL®101 and V-SEAL 102.
Ideal for:
Driveways, Walkways, Basements, Concrete Pavers, Split face block, Masonry products, Mortar, Pool decking, Marcite, Gunite, Stucco, Bridges, Tunnels, Foundations, Parking Garages, Warehouse Floors, Below grade, pre-cast, tilt-up, forms, bridge decks

- Commercial Concrete Applications
- Decorative Concrete Application Preservation
- Historical Preservation

Product Characteristics

- Long term protection
- Seals, hardens and dust proofs
- Resists black rubber tire marks
- Resists salt, freeze/thaw, chemicals
- Will not scratch or peel
- Environmentally safe
- Water-based, V.O.C. compliant
- No odor, no fumes
- USDA approved for incidental food contact
- Does not alter appearance or traction

Approximate Coverage:

First Coat	200-300 sq. ft./gal. (4.9 m^2/L)
Second Coat (if necessary)	300-400 sq. ft./gal. (7.4 -9.8 m^2/L)

Texture and absorption of surface will determine final coverage rates. Porous concrete surfaces may require additional material.

Performance Characteristics

Active Ingredients: 100% of total solids

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
Leading Competitor – 4.25% in 24 hours

Compressive Strength: ASTM C-140
Concrete treated with 117
– 3,910 psi (27MPa) average
Untreated concrete
– 3,461 psi (23.9 MPa) average

Water Vapor Transmission Rate
– 217 grams/sq. ft. – 24 hours

Color

V-SEAL® PHASE II has a clear, water-like appearance in the bottle. Upon proper application the substrate will have little, or no, noticeable change in appearance when dry.

Surface Preparation

V-SEAL® PHASE II is a reactive penetrating sealer. The surface must be clean and porous enough to allow substrate penetration. Surfaces should be clean and free of dirt, debris, mildew, oil, grease and other contaminants.

Ordering/Shipping Information

Packaging:	1 gal. jugs
	5 gal. pails
	55 gal. drums and concentrate kits
Shipping:	Normal package delivery and trucking

V-Seal Concrete Sealers

Toll-Free	(877) 738-7325
Local	(614) 754-4777
Fax	(614) 754-4778
Emergency	(800) 424-9300

9042 Cotter Street
Green Meadows Commerce Center
Lewis Center, OH 43035
info@vseal.com
www.vseal.com

Application Instructions

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.

DRYING TIME:
Approximately 2-4 hrs. at 70°F (21°C) with good air circulation.

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.

Keep containers of PHASE II from freezing.
A test installation is recommended.
Shelf life is one year.

Clean Up

Immediate and thorough flushing with clean water.

Maintenance

On floors, mop or use mechanical scrubbing with detergents or water. Mopping or scrubbing the floor will prolong the life of the floor, as well as increase the "polished" look. Wipe up chemical spills as soon as possible.

Warnings

- Keep out of the reach of children
- Surfaces may be slippery until dry
- Do not take internally
- Read MSDS before using product.

Safety & First Aid Precautions

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.

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