



# V-SEAL® 102

## Penetrating Sealer

### Commercial Grade Concrete Cure + Sealer

PRODUCT INFORMATION		Revised 08.09
PRODUCT DESCRIPTION	RECOMMENDED USES	
<p>V-SEAL 102 is a penetrating proprietary catalyzed potassium silicate solution that permanently fuses within porous substrates of concrete, brick, stone, and mortar to significantly increase surface strength, combat freeze/thaw damage, and limit penetration of stains and damaging impurities such as oil, gas, grease, and salt. V-SEAL 102 reduces dusting, retards mold and mildew, restricts efflorescence and hydrostatic moisture, and imparts waterproof characteristics. V-SEAL 102 is breathable with minimal impact to traction coefficient. V-SEAL 102 exceeds test criteria for ASTM C156, ASTM C309 and ASTM C1315 for curing new concrete. V-SEAL 102 creates a cross-linked insoluble methyl-silicone internal membrane that will wear away only if the substrate itself wears away below sealer penetration. V-SEAL 102 also contains film forming polymers for enhanced curing of broom finish concrete and superior salt and freeze/thaw protection in harsh winter climates.</p>	<p>V-SEAL 102 combats all concrete deterioration mechanisms specified by major concrete authorities:</p> <ul style="list-style-type: none"> <li>☐ Freeze/Thaw      ☐ Corrosion      ☐ Salt</li> <li>☐ Alkali Reaction    ☐ Abrasion</li> </ul> <p><u>Sealing residential and commercial structures:</u> Roads, driveways, parking decks, sidewalks, patios, basements.</p> <p><u>Masonry products:</u> Pavers, block, clay brick, artificial brick, natural stone, artificial stone, mortar, stucco.</p> <p><u>Architectural Features:</u> Countertops, mantels, furniture, ponds, fountains, and statues.</p> <ul style="list-style-type: none"> <li>• Horizontal or vertical applications.</li> <li>• Compatible with most glues or topical coatings.</li> <li>• Curing new broom finish concrete.</li> </ul>	
PRODUCT CHARACTERISTICS	PERFORMANCE CHARACTERISTICS	
<p><u>MSDS Information/ Physical Data:</u></p> <p>Boiling Point:            212 F  Vapor Pressure:            20C/68F water  Solubility in Water:        Excellent  Evaporation Rate:         Similar to water  Appearance and Odor:    Clear – slightly amine  Specific Gravity:            (H2O-1):1.1 to 1.3 @ 20C  % Volatile by Volume:    8 g/L  PH:                            11.5  Flashpoint:                 N/A  Flammable Limits:         N/A</p> <p>Finish:                      Flat/Clear  Coverage Rate*:            200-300 sq. ft. broom finish, rough                                        300-600 sq. ft. machine trowel, dense</p> <p>Drying Time Hours**:    Dry to touch 1-3, traffic 3-5  Shelf Life:                    2 years unopened</p> <p>*Coverage rate for estimating purposes only. Application rate based upon porosity and absorption. Always test absorption prior to application. When properly applied product should create a slightly white 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 or power washing. **Drying time for estimating purposes only.</p>	<p>ASTMD 2939:                Resistance to water solubility, flexibility, no cracking.</p> <p>ASTMD 466:                Resistance to water flow and action. Excellent adhesion. No remulsification.</p> <p>ASTME 96:                 Water vapor transmission 04 grains/sq/ft./hr. Water permeability – 0102 perms</p> <p>ASTM 836:                 Film thickness on a vertical scale.</p> <p>SS-W-110C:                Water repellence on masonry test:1.925%.</p> <p>ASTMC672:                Freeze/thaw cycle – 100 day cycle.</p> <p>ASTM C156:                Water retention 0.47 kg/m2, Specification – 0.55 kg/m2</p> <p>ASTM C309-98a:            Moisture loss – .25 kg/m2</p> <p>ASTM C1315-00:            Moisture loss – 0.31 kg/m2</p> <p>90 Day Ponding:           Passed.</p> <p>UV-Testing (modified)- No Change – Excellent Results  ASTM C 1315 6.6.4: 1000 megajoules/235 nM Uv light</p> <p>Adhesion ASTM-  Elcometer Pull:            280 lbs/ Concrete failed 1<sup>st</sup>/no delamination</p> <p>ASTM C642  Absorption:                Phase 1;48 hr: 0.64%-phase 2; 50 day: 1.32%</p> <p>ASTM Scaling Resistance:    No Scaling</p> <p>NCHRP 244, Series IV – 4.1 Southern Exposure  Absorbed Chloride:        Less than 8%</p> <p>NCHRP 244 Series –11 Cube Test: 3.1 less than 14%  Weight Gain 3.2 less than 11% Absorbed Chloride</p>	



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PRODUCT INFORMATION		
<b>RECOMMENDED SYSTEMS</b>	<b>SURFACE PREPARATION</b>	
<p><u>Existing Concrete</u></p> <p>V-SEAL 102 is a penetrating sealer. Always determine porosity prior to application (especially on machine troweled concrete and dark surfaces). Surface must be porous and free of loose debris, mildew, topical oil, paint or other surface coatings. Surface should be dry (no standing water). No mixing is required. Do not apply below 40°F or above 100°F. Apply uniformly with roller or low pressure sprayer. Specific coverage rate is based upon substrate porosity. Product should create a slightly white surface sheen and absorb within 1 minute without puddles. Puddles should be immediately dispersed as excessive application may result in white residue which will not affect sealer performance and generally dissipates over time or power washing. Wash application materials with warm water. Generally, only one application is required.</p> <p><u>Curing New Concrete</u></p> <p>For curing new concrete apply V-SEAL 102 after all bleed water is gone, finishing is complete and the concrete will withstand the weight of a person and not be marred. Apply uniformly with low pressure sprayer. Specific coverage rate is based upon substrate porosity. Actual application rate based upon porosity and absorption. Product should create a slightly white surface sheen and absorb within 1 minute without puddles. Newly poured concrete should not be subjected to rain or other sources of water prior to obtaining surface hardness (surface cannot be marred) which may be highly variable based upon temperature and humidity (2-12 hours).</p>	<p>V-SEAL® 102 is a deep-penetrating sealer. The surface must be clean and porous enough to allow penetration into the substrate. Surfaces should be clean and free of dirt, debris, mildew, oil, grease and other contaminants.</p>	
	<b>COLOR / TINT</b>	<p>V-SEAL® 102 has a light milky appearance upon initial application and dries flat and clear. May occasionally slightly darken concrete or pavers. Color tint is available in a wide selection of colors.</p>
	<b>Limitations</b>	<p><u>Limitations:</u> V-SEAL 102 is designed to work only on porous masonry substrates and is not intended for asphalt and may etch glass, vinyl, and metal. Avoid contact with eyes and skin. Sealer may be damaged if frozen prior to use. Not intended to seal cracks of more than 1/16 inch. The Company shall bear no liability, other than replacement of defective product. The Company specifically does not warranty specific performance results or compatibility with products manufactured by others. A small test must be conducted prior to application. Based upon this test, the purchaser shall determine for themselves the suitability of this product for the intended use.</p>
	<b>ORDERING/SHIPPING INFORMATION</b>	<p><b>Packaging:</b> 1 gal. jugs 5 gal. pails 55 gal. drums and concentrate kits</p> <p><b>Shipping:</b> Normal package delivery and trucking</p>
<b>REGULATORY</b>	<b>SAFETY / FIRST AID PRECAUTIONS</b>	
<p><u>Regulatory:</u> V-SEAL 102 complies with EPA, FDA and OSHA strict requirements, and contains no solvents and only 8 g/L Volatile Organic Compounds (VOC). This product is considered a non-hazardous chemical under OSHA Hazard Communication Standard (29CFR 1910.1200) Transportation Class: 55.</p>	<p><u>First Aid:</u> Eyes: Flush with water for at least 15 minutes Skin: Wash thoroughly with soap and water. Inhalation: No TVL established. Move subject to fresh air. Digestion: If consumed consult physician.</p>	

Manufactured for: V-SEAL Concrete Sealers / Information 877-738-7325  
 Web site: [www.vseal.com](http://www.vseal.com) / E-mail: [info@vseal.com](mailto:info@vseal.com)  
 Emergency Phone: 800-255-3924