

# BIO-Vee Seal TECHNICAL DATA

## CONCRETE SEALER & PRETREATMENT

Stand Alone Sealer  
Concrete Coating Pretreatment

- Nonhazardous for shipping
- Stops Damaging Fluids at the Surface
- Easy Application
- No Mixing Required
- Locks Out Mold and Mildew Permanently

<p>STANDARD PRODUCT DESCRIPTION</p>	<p>BIO-Vee Seal is a special formulated clear sealer that has a penetrating inorganic potassium modified material that "fuses" to concrete and stops water, oil, gas, grease, salts and other damaging fluids. BIO-Vee Seal will allow entrapped water vapors to escape because the vapor molecule is significantly smaller. This vapor transmission is necessary if the substrate is to survive many freeze/thaw cycles. V-Seal unique formula reacts with the time in the concrete to form a gel. The gel then hardens into crystals and consequently densifies the concrete, decreasing the moisture permeability and porosity. By BIO-Vee's fusion, the substrate actually becomes a better concrete that will only wear out when the substrate itself wears away to the depth of the penetration of BIO-Vee. Used by itself, it will reduce, or eliminate, moisture migration through concrete floors and walls. (Through the concrete itself, not when migration is through cracks.) It is used on concrete that is always a bit damp and to end the 'musty' or damp smell in basements, etc. Perhaps more importantly, but less obvious, is that by reducing or eliminating moisture movement through the concrete, it increases the likelihood of a successful paint or coating job on the concrete surface (Note: this product works below the surface of the concrete. It leaves nothing on the surface). This is because many coating failure are the result of moisture or vapor pressure building up on the underside of coatings applied to concrete. Because of this, BIO-Vee Seal is also a recommended, but optional, pretreatment to surface coatings.</p>
<p>USES</p>	<p>New construction (cure and seal) or existing concrete and is ideal for driveways, basement walls and floors, commercial concrete such as bridges, parking garages, pool decking, stucco, brick, tile grout and masonry products. Use in musty basements where the dampness promotes mold which can be a serious health issue.</p>
<p>APPEARANCE</p>	<p>COLORS ..... Clear (non yellowing)</p>
<p>PHYSICAL PROPERTIES</p>	<p>VAPOR PRESSURE ..... 20°C/68°F Water  VAPOR DENSITY ..... N/A  SOLUBILITY IN WATER ..... Excellent  SPECIFIC GRAVITY ..... (H2O-1): 1.1 to 1.3 @ 20°C  COVERAGE ..... Approximately 150-200 sq. ft per gallon depending on the porosity of the surface  CLEAN-UP ..... BIO-Vee is a water borne product and you can wash any application materials out with water. Avoid any contact with eyes and skin.  % VOLATILE BY VOLUME ..... N/A  pH ..... 11.5  EVAPORATION RATE ..... Same as water</p>

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APPROVED TECHNICAL DATA	<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 0.04 grains/sq. ft./hr.</p> <p>ASTMC 836 ..... Film thickness on a vertical surface</p> <p>SS-W-110C ..... Water repellence on masonry test: 1.925% avg.</p> <p>ASTMC672 ..... Freeze/thaw cycle - 20 day cycle.</p> <p>ASTMC-156 ..... Water retention 0.47 kg/m2, Specification - 0.55 kg/m2</p>
SAFETY INFORMATION	<p>FLASHPOINT ..... N/A</p> <p>FLAMMABLE LIMITS ..... N/A</p> <p>STORAGE ..... DO NOT FREEZE. Store in temperatures above freezing</p> <p>SHELF LIFE ..... Approximately 2 years</p>
SURFACE PREPARATION	<p>BIO-Vee can be applied on concrete, new or existing. Virtually any concrete or substrate surface - however BIO-Vee will not stick to any product with an oil base, such as asphalt, paints, vinyl, etc.) Surfaces should be clean and free of loose debris, dirt, mildew, oils and grease. The recommended surface may be damp but not wet.</p>
APPLICATION	<p>BIO-Vee is a single coat treatment. No mixing is required. BIO-Vee can be applied to dry or damp surfaces. Application to a damp surface is recommended. Applied to a damp surface, BIO-Vee will penetrate farther into the substrate and you may need to use more product. BIO-Vee can be applied by roller, brush or a normal pump sprayer. For best results, always start at the bottom and work towards the top.</p> <p>Depending on the porosity, one gallon will cover approximately 150 - 200 sq. ft. Due to the nature of concrete, there are many variables that will determine the amount of coverage. Garage or warehouse floors will get more coverage than driveways.</p>
CLEAN UP	<p>BIO-Vee is a water borne product and you can wash any application materials out with water. You should still avoid contact with eyes and skin. There may be a slight irritation. Inhalation may cause headache, irritation to nose, throat and lungs.</p>
NOTES	<p>To get effective results, the surface must be free of any grease, oil, etc. The cleaner the surface the better BIO-Vee will penetrate and fuse to the substrate. You may notice a slight coloration at first. This is normal. Any material that has worked its way into the surface will be forced out. This process will last for several weeks. It will eventually return to its natural color.</p>
TRANSPORTATION	<p>This product is considered a non-hazardous chemical under the OSHA Hazard Communication Standard (29CFR 1920.1200) Transportation classification: USDOT Hazard Class - Non-Regulated.</p>

**SAFETY:** This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

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