

## Sikafloor® Vapor Block

### Vapor Pressure Reduction System

<b>Description</b>	Sikafloor Vapor Block is a two-component, waterborne, vapor pressure reduction system.
<b>Where to Use</b>	Use when concrete substrate has been tested and determined to have a moisture vapor issue. Sikafloor Vapor Block is a seamless moisture vapor reducing system and is recommended to be overcoated with a Sikafloor system.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ High coefficient of water vapor permeability</li> <li>■ Can be used on damp concrete</li> <li>■ Good stability on green concrete</li> <li>■ Low VOC – water-based system</li> <li>■ Self-leveling and trowelable</li> <li>■ Matte finish</li> <li>■ Slip resistant</li> </ul>
<b>How to Use</b>	
<b>Surface Preparation</b>	Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc should be dressed off to achieve a level surface prior to the application. Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by shot blasting or equivalent mechanical means. (CSP-3 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever “shot-blasting” is utilized, be careful to leave concrete with a uniform texture. Over “blasting” will result in reduced coverage rates of the primer and/or subsequent topcoats. It is also possible that the texture of the “shot-blast” pattern may show through the last coat. This is known as “tracking”. The compressive strength of the concrete substrate should be at least 3500 psi (24 MPa) at 28 days and at least 250 psi (1.7 MPa) in tension at the time of application of Sikafloor PR-14 WB primer.
<b>Priming</b>	Prime with one coat of Sikafloor PR-14 at a rate of 400-500 sq.ft./gal. (121.9 m-152.4 m/3.78L) Allow to dry thoroughly until tack free and clear in appearance before coating. This time will vary with temperature and humidity.

Typical Data		
<b>Packaging</b>	2.6-gallon kit. (11.8 L)	
<b>Color</b>	White	
<b>Pot Life</b>	Approximately 30 minutes at 75°F(24 °C ). This is based on not leaving the mixed materials in the mixing pail any longer than absolutely necessary.	
<b>Shelf Life</b>	1 year in original, unopened container under proper storage conditions. Store dry between 40° - 90°F (5°-32°C).	
<b>Working Time</b>	Approx. 30 minutes @ 75°F (24°C)	
<b>Coverage</b>	Minimum of 60 mils of Vapor Block required. Each single batch will cover 70 sq.ft. (21.3m) at 60 mils WFT. Each single batch will cover 52 sq.ft. (15.8m) at 80 mils WFT.	
<b>Physical Properties:</b>		
<b>Hardness Shore D Durometer</b>	ASTM D-2240	80
<b>Bond Strength</b>	ACI 503R-5, 503R-25, A.1	500+ psi
<b>VOC (g/l)</b>	ASTM D2369-07	0.0 g/l

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<b>Mixing</b>	<p>It is important to remember this coating has a limited pot life. Review all surface preparation is complete and application equipment is in good working order before starting the mixing sequence.</p> <ol style="list-style-type: none"><li>1. Mix Vapor Block PART R component for 2-3 minutes at low speed with a "Jiffy Mixer" (300-450 rpm).</li><li>2. Carefully empty the contents of the Part H entirely into the can of Part R. The Part R container is oversized to allow for easy mixing.</li><li>3. Mix with a low speed "Jiffy Mixer" (300-450 rpm) until completely blended. This will take about 2-3 minutes. Be careful not to introduce any air bubbles while mixing.</li></ol> <p>Since this product does not need any induction time, it should be used immediately after mixing.</p>
<b>Cure Mechanism</b>	At a cure temperature of 77°F (25°C) & 50% R.H., allow 10-12 hours for initial cure.
<b>Application</b>	<p>This product should be applied by first pouring a bead of material in the form of a ribbon on the surface to be coated. The material should not be left in the container long because it will set faster, thus reducing the pot life.</p> <ol style="list-style-type: none"><li>1. Pour properly mixed material onto a controlled area of prepared floor. Spread uniformly at a minimum of 60 mils thickness with a notched trowel or gauge rake.</li><li>2. Use a metal pin roller to remove excess bubbles and facilitate leveling.</li><li>3. Pour another batch of mixed material onto floor next to previous material and work together in same manner. Continue to completion.</li></ol> <p>To ensure strong, bonded borders, do not feather the materials. In larger areas, the mixed product should be worked into a chase, which is a special groove cut into the concrete floor during the preparation process.</p>
<b>Critical Recoat Time</b>	It is important to apply subsequent coats of this and other products after the 24-hour recoat time (under normal curing conditions, 75°F, (23°C), 50% RH. Maximum recoat time is 36 hours. Surface must be abraded with 80 grit sreen prior to subsequent coats if the recoat window is missed.
<b>Limitations</b>	<ul style="list-style-type: none"><li>■ <b>IMPORTANT:</b> Product must be protected from freezing. If frozen, discard.</li><li>■ Minimum/Maximum substrate temperature: 60°F/85°F (15.5°C/30°C).</li><li>■ Minimum/Maximum relative humidity: 15%/85%</li><li>■ Substrate temperature must be at least 5°F (3°C) above measured dew point.</li><li>■ Determine the surface moisture content by using an impedance moisture meter designed for use on concrete as detailed in ASTM E-1907. Acceptable test results shall be 4% by mass or less. If over use Sikafloor Epocem 81/82.</li><li>■ Do not use on exterior, on-grade substrates.</li><li>■ Terminate at shoulders cut into substrate, avoid feather-edging.</li><li>■ Freshly applied Sikafloor Vapor Block should be protected from dampness, condensation and water for at least 24 hrs.</li><li>■ Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product. Critical recoat times will also be affected.</li><li>■ Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. UV resistant, light stable topcoats are available where ultimate color clarity retention is required.</li><li>■ This product is not designed for exterior use, or immersion.</li></ul>
<b>Caution</b>	<p><b>COMPONENT R: WARNING - IRRITANT, SENSITIZER:</b> Contains epoxy resins, Nonyl Phenol (CAS 25154-52-3). Eye irritant. May cause skin/respiratory irritation. Prolonged and/or repeated contact with skin may cause allergic reaction/sensitization. Deliberate concentration of vapors for purposes of inhalation is harmful and can be fatal. Harmful if swallowed. <b>Strictly follow all use, handling and storage instructions.</b></p> <p><b>COMPONENT H: WARNING: CORROSIVE, SENSITIZER, IRRITANT.</b> Contains amines (mixture). Contact with skin and eyes causes severe burns. Respiratory irritant. May cause eye/skin irritation. Possible skin sensitization/allergic reaction with prolonged or repeated exposure. Harmful if swallowed. Deliberate concentration of vapors for purposes of inhalation is harmful and can be fatal. <b>Strictly follow all handling, use and storage instructions.</b></p>
<b>First Aid</b>	<p><b>Eyes</b> – Hold eyelids apart and flush thoroughly with water for 15 minutes. <b>Skin</b> – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. <b>Inhalation</b> – Remove to fresh air. <b>Ingestion</b> – Do not induce vomiting. Dilute with water. Contact physician. <b>In all cases, contact a physician immediately if symptoms persist.</b></p>



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<b>Handling &amp; Storage</b>	Wear protective equipment (gloves/safety glasses/clothing) to prevent contact with skin and eyes. Keep container closed in a cool dry place. Wash skin thoroughly with soap and water after use. Use with adequate, general and local, exhaust ventilation. In absence of adequate ventilation, use a properly fitted NIOSH respirator. Remove contaminated clothing. Launder before reuse.	
<b>Clean Up</b>	Avoid direct contact with eyes and skin. Wearing chemical resistant goggles/gloves/clothing, collect spill. Ventilate area. In absence of adequate ventilation, use properly fitted NIOSH respirator. Sweep up spill and place in closed container. Dispose of in accordance with applicable local, state and federal environmental regulations.	
<b>Additional Info</b>	Technical Data Sheets are updated periodically. To ensure the most current version is being used, visit Technical Resources on <a href="http://www.sikafloorusa.com">www.sikafloorusa.com</a> . Proper material application is the responsibility of the user. Site visits made by Sika personnel are for making technical recommendations only and not for supervising or providing quality control.	
<b>Trouble Shooting</b>	<b>Problem Observed</b>	<b>Possible Causes</b>
	Fisheyes	Oil Contamination; Improper substrate cleaning; Mold release agents; Improper mixing.
	Peeling From Substrate	Insufficient preparation process; Oil impregnation.
	Peeling Between Coats	Past critical recoat time; Contamination between coats.
	Coating Soft, Dulling	Improper mixing; Use of thinner in product.
	Slow Cure	Low floor and ambient temperatures; Use of thinner in product; Improper mixing.
	Fast Cure	High floor and ambient temperatures.
	Bubbling	High temperatures; Working product past pot life; Improper mixing overworked the product.
	Lack Of Uniform Flow	Under application of the material.

**KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY**

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