

# Sikagard® 535

## Liquid Applied Acrylic Vapor Permeable Air Barrier

<b>Description</b>	Sikagard® 535 Liquid Applied Acrylic Vapor Permeable Air Barrier is a low VOC, single-component liquid applied, elastomeric membrane designed to provide a vapor permeable air and water barrier when applied to above-grade wall assemblies. It is acrylic-based and cures to a tough monolithic rubber-like membrane that resists air leakage and water penetration when applied to plywood and gypsum sheathing, concrete and concrete masonry units.
<b>Where to Use</b>	To be used in conjunction with SikaMultiSeal® 515 Self-Adhered Transition Seam Tape and Sikaflex® 11FC. Acceptable substrates are above grade exterior wall substrates including precast concrete, cast-in place concrete, concrete block, primed steel, aluminum mill finish, anodized aluminum, galvanized metal, gypsum board and wood.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ Non-sag (thixotropic) consistency, allowing wastage-free application of sufficient quantities and assuring deep penetration</li> <li>■ Low odor, low VOC.</li> <li>■ Seamless, elastomeric membrane for above grade wall applications.</li> <li>■ Easy to install, cost effective brush, roller or spray application using common spray equipment.</li> <li>■ UV Stable for 6 month exposure.</li> <li>■ Water vapor permeance allows wall assemblies to dry out.</li> <li>■ Excellent adhesion to common construction surfaces.</li> <li>■ Meets industry performance standards to control air movement.</li> <li>■ Low surface burning characteristics as appropriate for compliance with NFPA 285</li> </ul>
<b>Coverage</b>	Apply at a rate of 100 sf per gallon to achieve a uniform wet film thickness of 16 mils.
<b>Packaging</b>	5 gallon pail, 55 gallon drum

### Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

**Storage:** Store in original containers. Store dry at 40°F - 90°F (4°C - 35°C), do not allow product to

<b>Shelf Life:</b>	2 years in unopened containers.	
<b>Air Permeance ASTM E2178 (CFM/ft2):</b>	0.0001	
<b>WVP ASTM E 96B:</b>	12 perms	
<b>Water Resistance AATCC 127:</b>	Pass	
<b>Fastener Sealability D1970:</b>	Pass	
<b>Elongation at break ASTM D412:</b>	100%	
<b>Tensile Strength ASTM D412:</b>	175 psi	
<b>Dry Time:</b>	Sets to Touch:	6 - 12 hours
	Recoat:	6 - 12 hours
<b>Exposure:</b>	6 months	
<b>Surface Burning Characteristics ASTM E 84</b>	Flame Spread:	5
	Smoke Development Index:	5
	Class Rating:	A
<b>VOC:</b>	g/L < 50	
<b>Weight per Gallon:</b>	11.5 lbs	
<b>Solids by Weight:</b>	62%	
<b>Solids by Volume:</b>	55%	



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<b>Vehicle Base:</b>	Acrylic
<b>Solvent:</b>	Water
<b>Clean up:</b>	Warm soapy waterNCHRP 244 Series IV

## How to Use

### Surface Preparation

Surfaces must be sound, clean, dry and free of frost, dirt, dust, loose concrete, grease, oil, contaminants or other foreign matter that may adversely affect the adhesion of the liquid applied vapor permeable air and water barrier membrane. Surfaces should be sound, free of voids, gaps, breaks and spalled areas. New concrete should be cured for a minimum of 14 days before Sikagard® 535 Liquid Applied Acrylic Vapor Permeable Air Barrier is applied. Acceptable substrates are precast concrete, cast-in place concrete, concrete block, primed steel, aluminum mill finish, anodized aluminum, galvanized metal, gypsum board and wood. Joints between panels of exterior grade gypsum and plywood up to 1/4 inch (6 mm) wide shall be treated with a 1/16 inch (3 mm) deep x 3/4 inch (19 mm) wide cap bead application of Sikaflex® 11FC. Joints between panels of exterior grade gypsum or plywood wider than 1/4 inch (6 mm) shall be sealed with a strip of Sika® MultiSeal® 515 Self-Adhered Transition Seam Tape aligned over the joint and applied to a substrate primed with Sikagard® 510 Transition Seam Tape Primer. Apply sufficient pressure to self-adhered transition seam tape to ensure adhesion to substrate. Strike masonry mortar joints full flush. Cracks in masonry and concrete up to 1/4 inch (6 mm) wide shall be sealed with a cap bead application of Sikaflex® 11FC. Cracks in masonry and concrete up to 1/8 inch (3 mm) wide may be filled with a trowel application of liquid air barrier membrane and allowed to cure overnight prior to field application of the liquid air barrier membrane to surface. Cracks wider than 1/4 inch should be repointed.

Transition joints between dissimilar materials at beams, columns, window and door frames, etc., should be sealed with a strip of Sika® MultiSeal® 515 Self-Adhered Transition Seam Tape aligned over the joint and applied to a substrate primed with Sikagard® 510 Transition Seam Tape Primer. Apply sufficient pressure to self-adhered transition seam tape to ensure adhesion to substrate. Provide minimum of 2 1/2 inches (63 mm) of membrane bearing on each adjacent surface. Mechanical fasteners used to secure sheathing boards or penetrate sheathing boards prior to membrane application shall be set flush with sheathing board and fastened into solid backing. Thinning of the liquid membrane is not permitted.

### Mixing

Stir liquid membrane thoroughly prior to application.

### Application

Sikagard® 535 Liquid Applied Acrylic Vapor Permeable Air Barrier may be applied by brush, roller or spray. Application by conventional air assisted spray equipment in a single or dual-coat application is the preferred method. Apply liquid air barrier membrane in a continuous, monolithic application pattern to achieve a uniform coating of permeable air and water barrier membrane. Monitor applications to measure wet mil thickness and avoid creating sags or runs. Pretreat outside corners, wall openings and mechanical penetrations with Sika® MultiSeal® 515 Self-Adhered Transition Seam Tape. Apply liquid air barrier membrane to fully cover transition membrane applications.

Tie-in to structural beams, columns, floor slabs and intermittent floors, parapet curbs, foundation walls, roofing systems and at the interface of dissimilar materials with Sika® MultiSeal® 515 Self-Adhered Transition Seam Tape and or approved flashing membrane.

Mark areas off and ensure that the appropriate volume has been applied over each area. During spraying, the product should be applied in horizontal strokes, then vertical strokes in a cross-hatch method to ensure even application. Spray applications must be immediately backrolled. Protect wall areas covered with Sikagard® 535 Liquid Applied Acrylic Vapor Permeable Air Barrier from damage due to construction activities, high wind conditions, and extended exposure to inclement weather. Review condition of Sikagard® 535.

Liquid Applied Acrylic Vapor Permeable Air Barrier prior to installation of cladding. Repair, or remove and replace damaged sections with new membrane. Recommend to cap and protect exposed back-up walls against wet weather conditions during and after application of membrane, including wall openings and construction activity above completed water-resistive vapor permeable air barrier installations.

### Limitations

- Minimum age of SikaTop® or MonoTop® prior to application is three days, depending on curing and drying conditions (moisture content must be below 5%)
- Sikagard® 535 should not be applied at relative humidity greater than 90%, or if rain is forecast within the specified rain resistance period.
- When over-coating existing coatings, compatibility and adhesion testing is recommended.
- Do not store Sikagard® 535 in direct sunlight for prolonged periods .
- Strong winds can cause shrinkage if material is applied at lower temperatures.
- Not recommended for roofing.



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# Construction

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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