

## PRODUCT DATA SHEET

# Sikagard<sup>®</sup>-535

### Liquid Applied Acrylic Vapor Permeable Air Barrier

#### PRODUCT DESCRIPTION

Sikagard<sup>®</sup>-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.

#### USES

To be used in conjunction with SikaMembran<sup>®</sup> 540, Sikaflex<sup>®</sup> 102 EverFlash and Sikaflex<sup>®</sup> 11FC. Acceptable substrates are above grade exterior wall substrates including precast concrete, Cast-In-Place concrete, concrete block, gypsum board and wood.

#### CHARACTERISTICS / ADVANTAGES

- Evaluated by the Air Barrier Association of America
- Passes ASTM E 2178
- Passes ASTM E 2357
- Passes ASTM E 331
- Non-sag (thixotropic) consistency, allowing waste-free application of sufficient quantities and assuring deep penetration
- Low odor, low VOC.
- Seamless, elastomeric membrane for above grade wall applications.
- Easy to install, cost effective brush, roller or spray application using common spray equipment.
- UV Stable for 12 month exposure. Longer exposure is possible for rainscreen applications. Contact Sika Technical Services for details.
- Some tinting is possible if required for rainscreen applications. Contact Sika Technical Services for details.
- Water vapor permeance allows wall assemblies to dry out.
- Excellent adhesion to common construction surfaces.
- Meets industry performance standards to control air movement.
- Evaluated for use in NFPA 285 assemblies.

#### PRODUCT INFORMATION

<b>Packaging</b>	5 gallon pail, 55 gallon drum
<b>Shelf Life</b>	2 years in unopened containers.
<b>Storage Conditions</b>	Store in original containers. Store dry at 40°F - 90°F (4°C - 35°C)

#### TECHNICAL INFORMATION

<b>Elongation at Break</b>	100%	(ASTM D-412)
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<b>Tensile Adhesion Strength</b>	175 psi Pull Adhesion: Pass ABAA 5.3	(ASTM D-412) (ASTM D-4541)
<b>Crack Bridging Ability</b>	Pass ABAA 5.3	(C-1305)
<b>Permeability to Water Vapor</b>	6 perms	(ASTM E-96B)
<b>Self sealability</b>	2 specimens; 0.5mm (20 mil) dft; Two (2) 32mm roofing nails near center of specimen; Cond. 24h @ ambient Hydrostatic Head of 127 mm for 72h @ 40°F±2	PASS (ASTM D1970)
	<u>Bottom Can</u>	<u>No Water</u>
	<u>Nail Shank</u>	<u>No Water</u>
	<u>Underside of Plywood</u>	<u>No Water</u>
	<u>Between Plywood &amp; Membrane</u>	<u>No Water</u>

## APPLICATION INFORMATION

### BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

### AVAILABILITY/WARRANTY

**Vehicle Base:** Acrylic  
**Solvent:** Water

### LIMITATIONS

- Minimum age of Sika mortar 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 (approximately 4 hours at 68F/75% RH).
- 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.

### ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC

at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

### 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- Membran® 540 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 SikaMembran 540® 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.

## MAINTENANCE

### CLEANING

Clean up: warm soapy water

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

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#### Product Data Sheet

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Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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