



PRODUCT DATA SHEET

Sikagard[®]-530

LIQUID APPLIED ACRYLIC VAPOR PERMEABLE AIR BARRIER

PRODUCT DESCRIPTION

Sikagard 530 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[®]-540 or SikaMultiSeal[®] 515 SelfAdhered Transition SeamTape and Sikaflex[®] 11fc Liquid Seam Sealant. Acceptable substrates are above grade exterior wall substrates including precast concrete, cast-in place concrete, concrete block, gypsum board and wood. Consult with Sika Technical Services for details and Warranty Requirements.

CHARACTERISTICS / ADVANTAGES

- Evaluated by the Air Barrier Association of America
- Passes ASTM E 2357.
- 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 6 month exposure.
- 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

Packaging	5 gallon pails, 55 gallon drums	
Shelf Life	Minimum 1 year in unopened containers.	
Storage Conditions	Store in original containers. Store at temperatures above 40°F (4°C), do not allow product to freeze.	
Density	Recycled Content by weight:	25%
	Weight per Gallon:	11.2 lbs
	Solids by Weight:	64%
	Solids by Volume:	52% +/- 2%

TECHNICAL INFORMATION

Tensile Strength	300 psi	
Elongation at Break	124%	
Crack Bridging Ability	Pass	(ICC-ES AC212)
Reaction to Fire	Flame Spread Index <u>20</u> Smoke Development Index <u>25</u>	(ASTM E-84)
Permeability to Air	< 0.004 cfm/sf @ 1.57 psf (pass ABAA) System Air Leakage < 0.04 cfm/sf @ 1.56 psf (pass ABAA)	(ASTM E-2178) (ASTM 2357)
Water Vapor Transmission	11.5 perms	(astm E-96B)
Self Sealability	Pass	(ASTM D-1970)
Coverage	Apply at a rate of 2.5 gallons per 100 ft ² (40 sf per gallon) to achieve a uniform wet film thickness of 40 mils.	

APPLICATION INSTRUCTIONS

SUBSTRATE 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 7 days before Sikagard 530 Liquid Applied Acrylic Vapor Permeable Air Barrier is applied. Acceptable substrates are precast concrete, cast-in place concrete, concrete block, 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 Liquid Seam Sealant. Joints between panels of exterior grade gypsum or plywood wider than 1/4 inch (6 mm) shall be sealed with a strip of SikaMembran®-540 or SikaMultiSeal 515 Self-Adhered Transition Seam Tape aligned over the joint applied to a substrate primed with Sikagard 510 Transition Seam Tape Primer or a 10mil thick application of Sikagard 530 (refer to SikaMultiSeal 515 Product Data Sheet for further installation recommendations; Priming is generally not required for SikaMembran®-540). 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 Liquid Seam Sealant. 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 and openings, etc., should be sealed with a strip of SikaMembran®-540 or SikaMultiSeal 515 Self-Adhered Transition Seam Tape aligned over the joint and applied to a primed substrate. Provide minimum of 2 1/2 inches (63 mm) of membrane bearing on each adjacent surface. Apply Sikaflex 11 FC Liquid Seam Sealant or coating of Sikagard 530 applied at 40 mils thickness over the edge along the perimeter of SikaMembran®-540 or SikaMultiSeal 515. 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 METHOD / TOOLS

Sikagard 530 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 SikaMembran 540 or SikaMultiSeal 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 SikaMembran®-540 or SikaMultiSeal 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 back-rolled.

Protect wall areas covered with Sikagard 530 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 530 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

Dry Time: Sets to Touch: 4-6 hours

Recoat: 24 hours

AVAILABILITY/WARRANTY

Exposure:	6 months
Recycled Content by weight:	25%
Weight per Gallon:	11.2lbs
Solids by Weight:	64%
Solids by Volume:	52% +/- 2%
Vehicle Base:	Acrylic
Solvent:	Water
Clean Up:	Warm soapy water

LIMITATIONS

Apply at temperatures over 40°F (4°C). Do not apply when rain is forecast within the next 12 hours. Limit exposure to no greater than 6 months.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

g/L < 50

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 or by calling SIKA's Technical Service Department at 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.

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