



Product Data Sheet
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Sikagard 530

Sikagard® 530

Liquid Applied Acrylic Vapor Permeable Air Barrier

Construction

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.

Where to Use To be used in conjunction with SikaMultiSeal® 515 Self-Adhered Transition Seam Tape and Sikaflex® 11fc Liquid Seam Sealant. 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. **Sikagard 530 Liquid Applied Acrylic Vapor Permeable Air Barrier is appropriate for use at the wall to roof connection in conjunction with Sarnafil Roofing Systems. Consult with Sika Technical Services for details and Warranty Requirements.**

- Advantages**
- Approved by the Air Barrier Association of America
 - 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
 - Passes ASTM E 2357.
 - 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.
 - Passes in a wall assembly tested per NFPA 285

Typical Data (Material and curing conditions @ 74°F (22°C) and 40% 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 at temperatures above 40°F (4°C), do not allow product to freeze.
Shelf Life:	Minimum 1 year in unopened containers.
Properties:	
NFPA 285	tested assembly passes
Air Permeance ASTM E2178:	< 0.004 cfm/sf @ 1.57 psf (pass ABAA)
System Air Leakage ASTM 2357:	< 0.04 cfm/sf @ 1.56 psf (pass ABAA)
WVP ASTM E 96B:	11.5 perms
Crack Bridging/Freeze-Thaw ICC-ES AC212:	Pass
Water Resistance AATCC 127:	Pass
Fastener Sealability ASTM D1970:	Pass
Initial Elongation:	124%
Initial Tensile Strength:	300 psi
Dry Time:	Sets to Touch: 4 – 6 hours Recoat: 24 hours
Exposure:	6 months
Surface Burning Characteristics ASTM E 84	Flame Spread Index 20 Smoke Development Index 25
VOC:	g/L < 50
Recycled Content by weight:	25%
Weight per Gallon:	11.2 lbs
Solids by Weight:	64 %
Solids by Volume:	52% +/- 2%
Vehicle Base:	Acrylic
Solvent:	Water
Clean up:	Warm soapy water



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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.
Packaging	5 gallon pails, 55 gallon drums
How to Use	
Surface Preparation	<p>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, 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 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 SikaMultiSeal 515 Self-Adhered Transition Seam Tape aligned over the joint and 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). Strike masonry mortar joints full flush.</p> <p>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.</p> <p>Transition joints between dissimilar materials at beams, columns, window and door frames and openings, etc., should be sealed with a strip of 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 11fc Liquid Seam Sealant or coating of Sikagard 530 applied at 40 mils thickness over the edge along the perimeter of 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.</p>
Mixing	Stir liquid membrane thoroughly prior to application.
Application	<p>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 SikaMultiSeal 515 Self-Adhered Transition Seam Tape. Apply liquid air barrier membrane to fully cover transition membrane applications.</p> <p>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 SikaMultiSeal 515 Self-Adhered Transition Seam Tape and or approved flashing membrane.</p>



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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.

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.

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