

## PRODUCT DATA SHEET

# Sikagard<sup>®</sup>-540 Plus

### Primerless Air/Vapor Barrier Tape

#### PRODUCT DESCRIPTION

Sikagard<sup>®</sup>-540 Plus is a proprietary, self-adhering 32 mil composite membrane that provides a superior barrier to limit air and moisture transmission. Composed of:

- Tough high density polyester fabric for air barriers and sealants to adhere to
- Butyl adhesive - providing the waterproofing effectiveness of traditional modified bitumen products, while introducing a novel combination of low temperature adhesion, high temperature stability, and a much more aggressive adhesion level
- Easy to remove release liner – allowing for quick installation

#### USES

Sikagard<sup>®</sup>-540 Plus is designed to prevent vapor & air transmission in above-grade wall assemblies including wood, concrete, CMU block, OSB, plywood, glass mat, exterior sheathing products, foam insulation board, ICF and metal. Other applications include transition tape application for door, window and other openings and to connect the air barrier to the door, window or other penetration.

#### CHARACTERISTICS / ADVANTAGES

- Compatible with Sikagard liquid air barriers
- Antimicrobial coated fabric
- 30 day exposure rating
- Adheres to substrates down to -20°F (-28°C)
- Seals around properly installed fasteners
- Can be applied to damp surfaces
- No VOCs, HFCCs, nor CFCs
- Forms a positive air/vapor barrier
- Butyl adhesive for superior adhesion to common building materials
- Primerless self-adhering membrane— saves labor & material costs
- Fabric facer designed to accept & be a terrific surface for air barrier and sealants to adhere to
- Cross laminated poly interlayer for tear resistance
- Being tested for AAMA 711-20 specifications for self-adhered membranes
- Self seals around nails
- Air & water tight seal
- Non-staining, contains no asphalt
- No special adhesives, heat or equipment are needed to install Sikagard<sup>®</sup>-540 Plus
- Resists temperatures up to 240°F without degradation or flow of adhesive

#### PRODUCT INFORMATION

<b>Packaging</b>	Unit Size (sold in rolls): 4 in. x 75 ft. 6 in. x 75 ft. 12 in. x 75 ft.
<b>Shelf Life</b>	1 year in original packaging at recommended storage conditions
<b>Storage Conditions</b>	Store pallets under cover at temperatures between 40 °F and 100 °F

<b>Appearance / Color</b>	White		
<b>Thickness</b>	32 mils		
<b>Tensile Strength</b>	Grab Tensile	Warp 67 lbs / Weft 57 lbs	(ASTM D5034)
	Tensile Elongation at Max load	Warp 16% / Weft 107%	
	MD	1,264 psi (8.71 MPa)	(ASTM D412)
	CMD	1,167 psi (8.04 MPa)	
<b>Adhesion in peel</b>	OSB	Pass (2.1 lbf/in)	(ASTM D 3330 Method F)
	Anodized Aluminum	Pass (4.9 lbf/in)	≥1.5 lbf/in to pass
	Vinyl	Pass (4.3 lbf/in)	
	Plywood (APA Grade Exposure 1)	Pass (3.0 lbf/in)	
	Product applied to its face	Pass (2.0 lbf/in)	
<b>Low Temperature Bend</b>	Passes		(ASTM C765-73)
<b>Resistance to Water Penetration</b>	As Received	Pass	(AAMA 711 Section 5.2.1)
	Thermal Cycling	Pass	
<b>Self sealability</b>	PASS		(ASTM D1970 Section 7.9)
<b>Water Vapor Transmission</b>	Wet Cup	0.270 perms	(ASTM E96)
	Dry Cup	0.296 perms	
<b>UV Exposure</b>	30 days		

## 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.

## LIMITATIONS

- Sikagard®-540 Plus is a vapor barrier. Design professional shall determine appropriate use in project wall assemblies.
- Maximum permitted exposure is 30 days.
- Do not install on roofs.
- Sikagard®-540 Plus has an aggressive adhesive, we recommend removing 3" to 6" of the release liner at a time while installing to help prevent the tape from sticking to itself.
- PVC and TPO type roofing membranes may contain high concentrations of plasticizers that may react with the adhesive and is not recommended to be applied over these substrates.

## ENVIRONMENTAL, HEALTH AND SAFETY

## 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 membrane. Surfaces should be free of voids, gaps, breaks and spalls. New concrete should cure a minimum of 7 days, masonry mortar joints should be full and flush, holes or cracks greater than ¼" should be filled in with an appropriate mortar if static or with a suitable sealant or filler if required to move.

Gypsum, plywood and OSB sheathing boards shall be properly fastened, flush at the joints with gaps according to building codes and sheathing board manufacturer. Moisture content should be checked using a Tramex® moisture meter with a 4 % maximum allowable measurement. All surfaces shall be clean, dry and free of any foreign materials.

Metal surfaces may need to be solvent wiped and/or abraded to achieve optimum adhesion.

Note: Sika Corporation recommends testing substrates for adhesion prior to full application.

## APPLICATION METHOD / TOOLS

Joint/seam applications: care should be taken to

apply Sikagard®-540 Plus to form water-shedding laps. Cut the Sikagard®-540 Plus to length, remove a small portion of the release liner and apply to the substrate, continue to remove the release liner as you firmly roll into place using a “J” roller or hand roller to smooth out any wrinkles, air bubbles or creases. End laps should be a minimum 6” and should be firmly rolled to ensure adequate adhesion.

When applying to exterior gypsum products, a primer is not needed, provided the surface is clean, dry and free of any contaminants and is firmly rolled to ensure full adhesion.

Horizontal applications should start at the bottom and proceed upward, offset vertical seams 12”. Vertical applications should start at the top and unroll the membrane down the wall, offset horizontal seams 12”. Lap at all seams should be 2”. Sequence the installation, including detailing at wall openings such as windows and doors, to provide a continuous install with shingled laps.

## 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

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