

PRODUCT DATA SHEET

Sikagard® AWB 900

(formerly MSeal AWB 900)

LIQUID FLASHING MEMBRANE

PRODUCT DESCRIPTION

Sikagard® AWB 900 is a one-component elastomeric material for use as a flexible waterproofing flashing membrane for rough openings. It can also be used to prepare sheathing joints for subsequent application of Sika air/water-resistive barrier membranes.

USES

Sikagard® AWB 900 can be used as a membrane for flashing rough openings, and small penetrations and as a detailing compound for preparing sheathing joints for application of an air/ water-resistive barrier membrane. Acceptable substrates include poured concrete/ unit masonry, ASTM C1177 sheathings including DensGlas™ exterior sheathing, DensElement™, eXPTM sheathing, GlasRoc sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, GreenGlass sheathing, PermaBase™ cement-board by National Gypsum and other cement-boards (ASTM C1325 Type A Exterior) Exposure 1 or exterior plywood sheathing (grade C-D or better), Exposure 1 OSB, gypsum sheathing (ASTM C79 / ASTM C1396) pressure or fire retardant treated wood, steel and aluminum.

PRODUCT INFORMATION

Packaging

Sikagard® AWB 900

- 20 oz. propack
- 20 propacks per case

Shelf Life

Sikagard® AWB 900 has a 1-year shelf life when properly stored.

Storage Conditions

Store in original, unopened containers in a cool, dry place away from sources of heat and direct sunlight at a minimum of 40 °F. In cold weather, keep

CHARACTERISTICS / ADVANTAGES

- Can be applied to damp substrates
- Withstands rainfall immediately after application
- 180 days of UV exposure
- Fast cure and tack-free time
- Bonds to a wide range of substrates
- Does not contain solvents, phthalates, or isocyanates.

APPROVALS / STANDARDS

AAMA 714-15 Voluntary Specification for Liquid Applied Flashing Used to Create a Water-Resistive Seal Around Exterior Openings in Buildings

AAMA 711-13 Voluntary Specification for Self-Adhering Flashing Used for Installation of Exterior Wall Fenestration Products

ICC-ES AC212 Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers over Exterior Sheathing, approved February 2015

containers at room temperature for at least 24 hours before using. Storage at elevated temperatures will reduce shelf life.

Color	Dark Grey
Solid content by volume	99%

TECHNICAL INFORMATION

Tensile Strength	Pass, min 2.9 pli, at 12 and 30 mils	(AAMA 711 Sec 5.1, ASTM D5034)
	Tensile Bond	
	Tested over ASTM C1177 sheathing, plywood, OSB, cement board, PVC, aluminum, galvanized steel, and stainless steel	(AC 212 Sec 4.1, ASTM C297)
	Pass, > 105 kPa (15 psi)	
Crack Bridging Ability	Pass, no failure after 10 cycles with 1/8" gap and water holdout of 550 mm (21.7") for 24 hours, tested at 60 mils per ASTM C1305 instructions	(AAMA 714 Sec 5.6, ASTM C1305)
Adhesion in peel	Peel Adhesion	Tested over ASTM C1177 sheathing, plywood, OSB, concrete (mortar), CMU, galvanized steel, aluminum
	Control	Pass control and after conditioning, min. 5 pli
	UV exposure	(ASTM C794)
	Elevated temperature	(AAMA 714 Sec 5.3, ASTM G154)
	Thermal cycling	(AAMA 714 Sec 5.4)
	7-day water immersion	(AAMA 714 Sec 5.5)
	Peel Adhesion	Tested over ASTM C1177 sheathing, plywood, OSB, PVC, galvanized steel, aluminum
	Control	Pass control and after conditioning, min. 1.5 pli
	UV exposure	(ASTM D3330 Method F)
	Elevated temperature	(AAMA 711 Sec 5.3)
	Thermal cycling	(Sec 5.4, ASTM G154)
	7-day water immersion	(AAMA 711 Sec 5.5)
		(AAMA 711 Sec 5.6)
		(AAMA 711 Sec 5.7)
		(AAMA 711 Sec 5.8)



	Peeling Resistance	Pass, no signs of peeling after 7 days exposure to elevated temperatures - 50 °C (122 °F), 65 °C (149 °F) and 80 °C (176 °F)	(AAMA 711 Sec 5.9, Annex 2)
Thermal resistance	Thermal Cycling	Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage, or warpage after 10 cycles	(AAMA 714 Sec 5.5)
		Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage, or warpage after 10 cycles	(AAMA 714 Sec 5.6)
Low Temperature Bend		Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage after 7 days	(AAMA 711 Sec 5.7, ASTM D1970 Sec 7.6)
Thermal Resistance		Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage, or warpage at 50 °C (122 °F), 65 °C (149 °F), and 80 °C (176 °F)	(AAMA 714 Sec 5.4)
		Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage, or warpage at 50 °C (122 °F), 65 °C (149 °F), and 80 °C (176 °F)	(AAMA 714 Sec 5.5)
Water Penetration under Pressure		Pass, testing was performed with Sikagard® AWB 900 exposed over sheathing joints. No water penetration at 137 Pa (2.86 psf), 299 Pa (6.24 psf) or 575 Pa (12psf)	(AC212 Sec 4.5, ASTM E331)
	Sequential - Structural, Racking, Restrained Environmental and Water Penetration	Pass, testing performed with Sikagard® AWB 900 exposed over sheathing joints	(AC212 Sec 4.7)
	Structural ASTM E1233	No cracking at joint or interface of flashing	
	Racking ASTM E72	No cracking at joint or interface of flashing	
	Restrained Environmental AC212 Sec 4.7.3	No cracking at joint or interface of flashing	
	Water Penetration ASTM E331	No water penetration at 137 Pa (2.86 psf), 299 Pa (6.24 psf) or 575 Pa (12psf)	
	Nail Sealability	Pass, before and after thermal cycling, 24 hours at 40 °F with 31.75 mm (1 ¼") head of water	(AAMA 714 Sec 5.2, (AAMA 711 Sec 5.2), modified ASTM D1970 sec 7.9)
		Pass, before and after thermal cycling, 24 hours at 40 °F with 31.75 mm (1 ¼") head of water	(AAMA 711 Sec 5.2, modified ASTM D1970 Sec 7.9)
		Pass, before and after thermal cycling, 3 days at 40 °F with 127 mm (5") head of water	(ASTM D1970 Sec 7.9)
Permeability to Water Vapor	19.9 perms at 12 mils		(AAMA 714 Sec 6.3, ASTM E96 Method B)
	7.2 perms @ 30 mils		

19.9 perms @ 12 mils (AC212 Sec 4.4,
7.2 perms @ 30 mils ASTM E96 Method B)

Air leakage rate	0.0463 L/s-m ² at 75 Pa (0.00926 cfm/ft ² at 1.57 psf), tested over C1177 sheathing, sheathing joints and penetration details treated with Sikagard® AWB 900, no other coating used	(ASTM E2357)
Air permeance	0.00410 L/s-m ² at 75 Pa (0.00082 cfm/ft ² at 1.57 psf), performed on 12 mil thick free film sample 0.00410 L/s-m ² at 75 Pa (0.00082 cfm/ft ² at 1.57 psf), performed on free film sample	(ASTM E2178) (ASTM E2178)
Water resistance	Pass, 14-day exposure, no deleterious effects such as cracking, checking, crazing, or erosion Water Immersion Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage after 7 days Adhesion to Damp Substrates Pass, min 5 pli, over OSB and mortar (absorptive substrates)	(AC212 Sec 4.3, ASTM D2247) (AAMA 714 Sec 5.7) (AAMA 714 Sec 6.1 and 6.2)
UV Exposure	No cracking or bond failure after 210 hrs	(AC212 Sec 4.8.1)
Resistance to Weathering	Pass	(AC212 Sec 4.8)
Freeze-Thaw Stability	Pass, 10 cycles, no deleterious effects such as cracking, checking, crazing, or erosion, viewed at 5x magnification	(AC212 Sec 4.2)
Artificial Ageing	Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage after 14 days (336 hours) to Cycle 1 of G154 No cracking or bond failure after 25 cycles	(ASTM E 96 Method A) (AC212 Sec 4.8.2)
Reaction to Fire	Class A flame spread <25 Class A smoke developed <450 Tested at 30 mils	(ASTM E84)

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.

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

SUBSTRATE PREPARATION

Apply to clean surfaces free of frost, debris, contamination, and materials that may inhibit bonding. Remove any standing water such that no water is visible or transferred to skin upon touching the surface. Test bonding performance on a small area before proceeding with the overall application.

SURFACE PREPARATION

1. The application of Sikagard® AWB 900 should not exceed 30 mils for noncombustible construction.
2. Sikagard® AWB 900 is not designed to bridge gaps greater than 1/2 inch.
3. Damp substrates should be free of standing or visible water.
4. Do not apply to frozen surfaces.
5. Protect Sikagard® AWB 900 during transportation & storage to avoid physical damage.

APPLICATION

Flashing Rough Openings:

1. Apply a bead of Sikagard® AWB 900 in each corner of the rough opening, ensuring that corners are fully sealed. Where wood bucks are used, apply a bead of Sikagard® AWB 900 into gaps between bucks and between the buck and building structure.
2. Apply additional Sikagard® AWB 900 in a zigzag pattern onto the head, sill, jambs, and exterior substrate. Spread Sikagard® AWB 900 evenly across the rough opening to form a uniform, continuous, void, and pinhole-free membrane with a 12-20 mil thickness. Extend Sikagard® AWB 900 membrane minimum of 4 inches onto the exterior wall, maintaining 12-20 mil thickness.
3. Extend Sikagard® AWB 900 at a minimum of 4 inches onto the exterior wall, maintaining 12-20 mil thickness.
4. Allow Sikagard® AWB 900 to skin before applying Sikagard® AWB fluid-applied air/water-resistive barrier to sheathing. Lap the air/water-resistive barrier a minimum of 2 inches onto Sikagard® AWB 900, creating a continuous, monolithic air/water-resistive barrier membrane.
5. Allow Sikagard® AWB 900 to skin before the installation of windows, doors, and other wall assemblies.

Sheathing Joints:

1. Apply a thick bead of Sikagard® AWB 900 to sheathing joints.
2. Spread Sikagard® AWB 900 evenly a minimum of 1 inch beyond the joint on either side. Apply 20 mils of Sikagard® AWB 900 across the sheathing joint.
3. Spot fastener heads with Sikagard® AWB 900 or Sikagard® AWB fluid-applied air/water-resistive barrier.
4. Allow Sikagard® AWB 900 to skin before applying Sikagard® AWB fluid-applied air/water-resistive barrier to sheathing.

Inside and Outside Corners:

1. At the inside and outside corners, apply a bead of Sikagard® AWB 900 vertically into the joint. Apply additional Sikagard® AWB 900 in a zigzag pattern onto the joint. Spread Sikagard® AWB 900 evenly a minimum of 1 inch beyond the joint on either side to form a uniform, continuous void, and pinhole-free membrane.
2. Spot fastener heads with Sikagard® AWB 900 or Sikagard® AWB fluid-applied air/water-resistive barrier.
3. Allow Sikagard® AWB 900 to skin before applying Sika fluid-applied air/water-resistive barrier to sheathing.

Penetrations through wall construction:

1. Sikagard® AWB 900 can be used to seal penetrations

up to 1/2 inch gap.

CURING TREATMENT

Sikagard® AWB 900 typically skins in 25 to 40 minutes and cures in 4 to 6 hours of application at 75 °F and 50% relative humidity. Warmer and more humid conditions will accelerate curing. Cure times will be extended in dry and cold conditions. Sikagard® AWB 900 can be applied to frost-free, dry substrates above 25 °F, but curing will not be initiated until temperature rises and remains above 32 °F.

CLEANING OF TOOLS

Immediately after use, clean equipment with Xylene or other appropriate solvent. Use proper precautions when handling solvents. Remove the cured membrane by cutting with a sharp-edged tool. Remove thin films by abrading.

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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