

PRODUCT DATA SHEET

SikaWall®-80 MaxFlash®

Liquid Flashing Membrane

PRODUCT DESCRIPTION

A one-component elastomeric material for use as a flexible waterproofing flashing membrane. SikaWall®-80 MaxFlash complies with building code requirements as listed in CCRR-0255 Code Compliance Research Report.

USES

Flashing membrane for rough openings, small penetrations and as a detailing compound for preparing static sheathing joints up to 1/2" wide for application of Sika Facades and air/water-resistive barrier membranes.

CHARACTERISTICS / ADVANTAGES

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

PRODUCT INFORMATION

Packaging	▪ 20 oz. Propack ▪ 20 Propacks Per Case
Color	Dark Grey (Charcoal)
Shelf Life	One (1) year, when unopened and stored as directed.
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 containers at room temperature for at least 24 hours before using. ▪ Storage at elevated temperatures over 100 °F will reduce shelf life.
Volatile organic compound (VOC) content	30 g/l or 0.25 lbs/gal less water and exempt solvents.
Solid content by volume	99% solids
Coverage	<u>Per Propack</u> ▪ Sheathing Joint: 35-60 Ln Ft at 20 mils (applied 1" on each side of joint) ▪ Rough Openings: 12-20 ft² at 20 mils

Substrates

For use over the following exterior wall substrates: Poured concrete/unit masonry, ASTM C1177 type sheathings, including DensGlass™ or DensElement exterior sheathing (sheathing only), eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, GreenGlass® sheathing; PermaBase™ cement-board and other cement-boards (ASTM C1325 Type A Exterior); Untreated Exposure I or exterior plywood sheathing (grade C-D or better), Untreated Exposure I OSB, Zip Sheathing (sheathing only) Pressure and Fire Treated wood sheathing, steel, aluminum; and Sika Facades air/water-resisitive barriers.

Test Results

AAMA 714-15 VOLUNTARY SPECIFICATION FOR LIQUID APPLIED FLASHING USED TO CREATE A WATER-RESISTIVE SEAL AROUND EXTERIOR OPENINGS IN BUILDINGS

TEST/METHOD	CRITERIA	RESULT
Peel Adhesion ASTM C794	Control AAMA 714 Sec 5.1 UV Exposure Sec 5.3, ASTM G154 Elevated Temperature AAMA 714 Sec 5.4 Thermal Cycling AAMA 714 Sec 5.5 7 Day Water Immersion AAMA 714 Sec 5.7	Pass - tested over ASTM C1177 sheathing, plywood, OSB, concrete (mortar), CMU, galvanized steel, aluminum
Crack Bridging AAMA 714 Sec 5.6 ASTM C1305	10 cycles with 1/8" gap and water holdout of 21.7" (550 mm) for 24 hrs, tested at 60 mils	Pass, no failure
Nail Sealability AAMA 714 Sec 5.2, modified ASTM D1970 sec 7.9	No water penetration at galvanized roofing nail penetration under 1.25" (31 mm) head of water after 24 hrs at 40°F (4°C)	Pass, before and after thermal cycling
Accelerated Aging AAMA 714 Sec 5.3 ASTM G154, Cycle 1	14 days (336 hrs) to cycle 1 of G154: 8 hrs UV at 140°F (60°C), 4 hrs condensation at 122°F (50°C)	Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage
Elevated Temperature AAMA 714 Sec 5.4	Tested at 122°F (50°C), 149 °F (65°C) and 176°F (80°C) for 7 days each	Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage
Thermal Cycling AAMA 714 Sec 5.5	10 cycles: 8 hrs at 120°F (50°C) followed by 16 hrs at -40°F (-40°C)	Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage

Water Immersion AAMA 714 Sec 5.7	7 days immersed in tap water at 73°F (23°C)	Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage
Adhesion to Damp Substrates AAMA 714 Sec 6.1 and 6.2	Minimum 5 pli, over OSB and mortar (absorptive substrates), substrate submerged in water for 24 hrs prior to flexible flashing application	Pass
Water Vapor Permeability AAMA 714 Sec 6.3, ASTM E96 Method B	Report Value	19.9 perms @ 12 mils 7.2 perms @ 30 mils

Note: All testing with MaxFlash at 12 mils unless otherwise noted

ICC-ES AC212 ACCEPTANCE CRITERIA FOR WATER-RESISTIVE COATINGS USED AS WATER-RESISTIVE BARRIERS OVER EXTERIOR SHEATHING

TEST/METHOD	CRITERIA	RESULT
Tensile Bond ASTM C297, AC 212 Sec 4.1	Minimum 15 psi (103 kPa)	Pass - tested over ASTM C1177 sheathing, plywood, OSB, concrete (mortar), CMU, galvanized steel, aluminum.
Freeze-Thaw ASTM E 2485 (Method B) AC212 Sec 4.2	No sign of deleterious effects after 10 cycles: 8 hrs at 120°F (49°C), water immersion for 8 hrs, then 16 hrs at -20°F (-29°C)	Pass -no deleterious effects such as cracking, checking, crazing or erosion, viewed at 5x magnification.
Water Resistance ASTM D2247, AC212 Sec 4.3	No deleterious effects after 14-day Exposure to 100% RH at 100°F (38°C)	Pass -no deleterious effects such as cracking, checking, crazing or erosion.
Water Vapor Permeability ASTM E96 Method B AC212 Sec 4.4	Report Value	19.9 perms @ 12 mils 7.2 perms @ 30 mils
Water Penetration ASTM E331, AC212 Sec 4.5	No water penetration at 2.86 psf (137 Pa) pressure differential for 15 minutes	Pass, testing performed with MaxFlash exposed over sheathing joints; also passes at 6.24 psf (299 Pa) and 12 psf (575 Pa)
Sequential Testing: AC212 Sec 4.7 1. Structural -ASTM E 1233 Procedure A 2. Racking - ASTM E 72 3. Restrained Environmental Conditioning -ICC-ES AC-212 4. Water Penetration -ASTM E 331	No Cacking at Joints or Interface of Flashing No Water Penetration after 15 min @ 2.86 psf (137 Pa)	No cracking at joint or interface of flashing and no water penetration at 2.86 psf (137 Pa), 6.24 psf (299 Pa) or 12psf (575 Pa)

Sequential Testing - Weathering: AC212 Sec 4.8	No Cracking or Bond Failure After 210 hrs	Pass
1. UV Light Exposure - ICC-ES AC-212 Sec 4.8.1	No Cracking or Bond Failure After 25 cycles	
2. Accelerated Aging- ICC-ES AC-212 Sec 4.8.2	No Water Penetration	
3. Hydrostatic Pressure - AATCC 127-1985	Under 21.7" (550 mm) Head of Water	
Air Permeance of Building Materials ASTM E2178	Report Value	0.00082 cfm/ft2 @ 1.57 psf (0.00410 L/s-m2 @ 75 Pa), performed

Note: All testing with MaxFlash at 20 mils unless otherwise noted

**AAMA 711-13 VOLUNTARY SPECIFICATION FOR SELF ADHERING FLASHING
USED FOR INSTALLATION OF EXTERIOR WALL FENESTRATION PRODUCTS**

TEST/METHOD	CRITERIA	RESULT
Tensile Strength AAMA 711 Sec 5.1, ASTM D5034	Minimum 2.9 pli, at 12 and 30 mils	Pass
Nail Sealability AAMA 711 Sec 5.2, modified ASTM D1970 sec 7.9	No water penetration at galvanized roofing nail penetration under 1.25" (31 mm) head of water	Pass, before and after thermal cycling.
Accelerated Aging AAMA 711 Sec 5.4 ASTM G154, Cycle 1	14 days (336 hrs) to Cycle 1 of G154: 8 hrs UV at 140°F (60°C), 4 hrs condensation at 122°F (50°C)	Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage.
Elevated Temperature AAMA 711 Sec 5.5	Tested at 122°F (50°C), 149°F (65°C) & 176°F (80°C) for 7 days each	Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage.
Thermal Cycling AAMA 711 Sec 5.6	10 cycles: 8 hrs at 120°F (50°C) followed by 16 hrs at -40°F (-40°C)	Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage.
Cold Temperature Pliability AAMA 711 Sec 5.7 ASTM D1970 Sec 7.6	No cracking of 12 or 30 mil samples bent around 1" (25 mm) mandrel at 0°F (-18°C) and -20°F (-29°C)	Pass
Water Immersion AAMA 711 Sec 5.8	7 days immersed in tap water at 73°F (23°C)	Pass, no deleterious effects such as wrinkling, distortion, blistering, expansion, shrinkage or warpage.
Peeling Resistance AAMA 711 Sec 5.9, Annex 2	No signs of peeling after 7 days exposure to elevated temperatures at 122°F (50°C), 149°F (65°C) and 176°F (80°C)	Pass

Peel Adhesion ASTM D3330 Method F	Control AAMA 711 Sec 5.3 UV exposure Sec 5.4, ASTM G154 Elevated temperature AAMA 711 Sec 5.5 Thermal cycling AAMA 711 Sec 5.6 7 day water immersion AAMA 711 Sec 5.8	Pass - tested over ASTM C1177 sheathing, plywood, OSB, PVC, galvanized steel, aluminum
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Note: All testing with MaxFlash at 12 mils unless otherwise noted

ADDITIONAL TESTING

TEST/METHOD	CRITERIA	RESULT
Air Permeance of Building Materials ASTM E2178	Report Value	0.00082 cfm/ft ² @ 1.57 psf (0.00410 L/s-m ² @ 75 Pa), performed on free film sample
Air Leakage of Air Barrier Assemblies ASTM E2357	Report Value	0.00926 cfm/ft ² @ 1.57 psf (0.0463 L/s-m ² @ 75 Pa), tested over C1177 sheathing, sheathing joints and penetration details treated with MaxFlash, no other coating used
Nail Sealability ASTM D1970 Sec 7.9	3 days at 40°F with 5" (127 mm) head of water	Pass, before and after thermal cycling
Surface Burning ASTM E84	Report Value	Class A flame spread <25 Class A smoke developed <450
Elongation ASTM D412	Report Value	Tested at 30 mils 288% at 20 mils

Drying Time

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.
- SikaWall MaxFlash can be applied to frostfree, dry substrates above 25 °F, but curing will not be initiated until temperature rises and remains above 32 °F.

BASIS OF PRODUCT DATA

SURFACE 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 overall application.

- Substrate temperature must be above 25°F (-4°C).
- Damp substrates should be free of standing or visible water.

APPLICATION

Flashing Rough Openings

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

Sheathing Joints

Apply a thick bead of SikaWall MaxFlash to sheathing joints. Spread evenly a minimum of 1" beyond the joint on either side, maintaining 20-mils across the sheathing joint. Allow flashing to skin before applying Sika Facades air/water-resistive barrier to sheathing. Reference SikaWall MaxFlash published details for visual representation of application.

Note: MaxFlash can be used to treat sheathing joints up to ½" wide, not for use in expansion joints.

Inside and Outside Corners

At the inside and outside corners, apply a bead of SikaWall MaxFlash vertically into the joint. Ensure to treat any knot holes and check cracks that may exist in plywood or OSB. Apply additional SikaWall MaxFlash in a zigzag pattern onto the joint. Spread evenly a minimum of 1" beyond the joint on either side to form a uniform, continuous void and pinhole-free membrane. Spot fastener heads with SikaWall MaxFlash or Sika Facades fluid-applied air/water-resistive barrier. Note: Allow SikaWall MaxFlash to skin before applying Sika Facades fluid-applied air/water-resistive barrier to sheathing.

Through Wall Penetrations

SikaWall MaxFlash can be used to seal penetrations

up to a 1/2" gap.

LIMITATIONS

1. The application of MaxFlash should not exceed 30 mils for non-combustible construction.
 2. Limit the UV exposure of SikaWall®-80 MaxFlash® to a maximum of 180 days . If exposure limits are exceeded, clean and recoat with SikaWall®-80 MaxFlash® before installing any Sika Facades Assemblies.
 3. Not for use in expansion joints
 4. Not designed to bridge gaps greater than 1/2".
 5. Damp substrates should be free of standing or visible water.
 6. Not for below grade application.
 7. Do not apply in ambient temperatures below 25°F (-4°C) or onto substrates below 25°F (-4°C).
- Consult Sika Facades Technical Services Department at +1 (800) 589-1336 for specific recommendations concerning all other applications.

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.

CLEANING OF TOOLS

Immediately after use, clean equipment with Xylene or other appropriate solvent. Use proper precautions when handling solvents. Remove 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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SIKA warrants this product for one year from date of

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Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com



Product Data Sheet

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