

## BLOCKSEAL

### LIQUID FLASHING

**PRODUCT #:**

P-1590 - Water-Based, Liquid Flashing

**PRODUCT DESCRIPTION:**

BLOCKSEAL is a liquid applied waterproof coating that seals window and door substrates in new and existing applications.

BLOCKSEAL liquid flashing is a water-based, low VOC, acrylic adhesive that provides excellent adhesion on a wide variety of surfaces including: weathered wood, shakes, plywood, clapboard, primed metal, galvanized, urethane, polyester, adobe, brick, stucco, concrete, masonry, slate, slab, and various other substrates.

The latex based BLOCKSEAL contains a high resin formula with ceramic pigments that creates a watertight seal, keeping moisture from penetrating door and window openings beneath the exterior façade of the structure. The high resin content provides excellent adhesion to the substrate, allowing a tight bond to formed with the finish coat. The bond between BLOCKSEAL and the substrate eliminates any possibility of moisture penetrating under the finish coat, thus considerably extending the life of the coating.

For use on residential, commercial, and industrial applications. BLOCKSEAL may be installed over green concrete. The American Concrete Institute defines green concrete as concrete which has set, but has not appreciably hardened.

**SUBSTRATE PREPARATION:**

For appropriate adhesion, it is essential that the surface is properly prepared prior to the application of BLOCKSEAL. Clean exterior surfaces by thoroughly pressure-washing to remove any previous coatings, dirt, grease, and other foreign materials, especially mold, mildew and algae. BLOCKSEAL will resist mildew growth, but will not kill mildew already on the surface.

Repair any structural deficiencies before applying BLOCKSEAL. Non-structural gaps or cracks should be filled with a waterproofing caulk or sealant.

**APPLICATION:**

Do not thin, use product as is. Stir well before using. Do not apply when temperatures are below 45 degrees fahrenheit or when humidity is very high. Do not apply when substrate will be subjected to rain or heavy dew before it has had enough time to dry (approx. 1-2 hours).

Apply BLOCKSEAL using a brush or roller and spread uniformly, creating a wet film thickness coat of 20 mil. Wait a minimum of four hours before applying a compatible paint or other finish coat. Spread rate will vary depending on substrate. Drying time will vary depending on temperature, humidity and location.

If desired surface texture is not achieved, wait at least 12 hours, then, if needed, apply a second coat of BLOCKSEAL.

**CLEAN UP:**

Clean all spills and tools immediately after use while coating is wet with warm soapy water.

**NOTE:** New masonry must cure 30 days before priming or applying BLOCKSEAL. Although APV's coating systems have been designed to be apply over a wide variety of surface types, some substrates require additional preparation. Always consult your APV technical representative regarding each project. In all cases, the substrate must be properly prepared as defined in the instructions below and tested using the ASTM D3359 Standard Test Methods for Measuring Adhesion by Tape Test prior to coating the surface. Please consult with your APV representative for additional guidelines. Inadequate surface preparation and application can lead to coating failure and/or under-performance.

**FEATURES:**

Water-based  
Liquid Flashing

Exceptional  
adhesion to  
most surfaces

Fast drying  
formula

Meets & exceeds  
AAMA 714-22

Low VOCs

May be used on  
green concrete

**TECHNICAL DATA:****Section 1**

<b>Product Code</b>	P-1590	
<b>Product Description</b>	BLOCKSEAL	
<b>Physical Properties</b>	Color:	Off-White
	Type:	Water Based
	Viscosity	105 - 125 KU
	Weight Per Gallon	10.95 lbs/gal +/- 0.30 lbs. - 1.31 g/ml +/- 0.04 g/ml
	Specific Gravity (ASTM D 1475-90)	1.300 +/- .04
	Gloss @ 60°:	NA
	pH:	8.0-9.0
	Flash Point	> 200° F 93.3° C
	Solids	50% by weight - 34.1% by volume
	Theoretical Coverage	546.96 ft <sup>2</sup> /gal @ 1.0 mil dry - 13.42 m <sup>2</sup> /l @25.4 μ
	VOC (wet):	0.19 lb(s)/gal (22.8 g/l)
	VOC (dry):	0.38 lb(s)/gal (45.6 g/l)
<b>Application</b>	Recommended Film Thickness	20 mil (wet) - 12 mil (dry)
	Coverage	152.76 ft <sup>2</sup> /gal @ 3.58 mil (dry)
	Method	Brush, roll
	Cure Method	Air Dry
	Reduction	None Required
	Clean Up:	Clean or flush with water
	Recommended Equipment	Paint Brush or Roller
<b>Substrate</b>	Type:	Concrete, Masonry, Stucco
	Preparation	IPA wipe; surface should be clean, dry and free from oils, dirt & contamination
<b>Handling &amp; Storage</b>	Shelf Life:	1 year
	Freeze Caution	Protect from freezing
	Recommended Storage	Cool Dry Location - Maximum 104° F
<b>Additional Guidelines</b>	<i>Mix well before using. Keep away from food, drink and heat. Avoid contact with eyes</i>	



**Results: AAMA 714**

Property	Test Method	Result	Requirement
<b>Test Requirements</b>			
Adhesive Strength to Substrates (lbf) 3 specimens; 1"; Cure 7d @ 73.4±3.6°F & 50±5%RH followed by; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM C 794		
Concrete Masonry Units (CMU)		21	≥ 5
Cement Mortar Slabs		10	≥ 5
Plywood (APA Grade Exposure 1)		27	≥ 5
OSB <sup>1</sup>		8	≥ 5
Water Penetration Around Nails [Pass/Fail] 5 specimens; 4" x 4" (applied to plywood); Two 1-1/4" roofing nails placed near center of specimen; Cond. 24h @ standard conditions; Test 1.2inw.c. @ 40±5°F for 24h; Visual Inspection for water infiltration	AAMA 711/ ASTM D 1970 Section 7.9	Pass	Pass
Bottom Can; [Water/No Water]		Pass	No Water
Nail Shank; [Water/No Water]		Pass	No Water
Underside of Plywood; [Water/No Water]		Pass	No Water
Water Penetration Around Nails [Pass/Fail] 5 specimens; 4" x 4" (bonded to plywood); Two 1-1/4" roofing nails placed near center of specimen; Cond. 24h @ 73.4±3.6°F & 50±5% RH followed by; 10 cycles; 8h @ 120±2°F followed by 16h @ -40±2°F Test 1.2inw.c. @ 40±5°F for 24h; Visual Inspection for water infiltration	AAMA 711/ ASTM D 1970 Section 7.9	Pass	Pass
Bottom Can; [Water/No Water]		Pass	No Water
Nail Shank; [Water/No Water]		Pass	No Water
Underside of Plywood; [Water/No Water]		Pass	No Water
Accelerated Aging (lbf/in) 3 specimens; 1"; Cement Mortar Slab Cond. vertically 24h @ 73.4±3.6°F; Cond. 336h ASTM G 154 UVA Cycle 1; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM G 154 ASTM C 794	12	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance

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Accelerated Aging (lbf/in) 3 specimens; 1"; CMU Cond. vertically 24h @ 73.4±3.6°F; Cond. 336h ASTM G 154 UVA Cycle 1; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM G 154 ASTM C 794	15	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance
Accelerated Aging (lbf/in) 3 specimens; 1"; Plywood Cond. vertically 24h @ 73.4±3.6°F; Cond. 336h ASTM G 154 UVA Cycle 1; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM G 154 ASTM C 794	27	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance
Accelerated Aging (lbf/in) 3 specimens; 1"; OSB <sup>1</sup> Cond. vertically 24h @ 73.4±3.6°F; Cond. 336h ASTM G 154 UVA Cycle 1; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM G 154 ASTM C 794	19	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance
Elevated Temperature (lbf/in) 3 specimens; 1" wide; Cement Mortar Slab Cond. vertically 24h @ 73.4±3.6°F; Cond. 7d @ 80°C; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	AAMA 714 ASTM C 794 Level 3	28	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance
Thermal Cycling (lbf/in) 3 specimens; 1"; Cement Mortar Slab Cond. vertically 24h @ 73.4±3.6°F; Cond. 8h @ 50±1°C followed by; Cond. 16h @ -40±1°C: total of 10 Cycle; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	AAMA 714 ASTM C 794	20	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance
Thermal Cycling (lbf/in) 3 specimens; 1"; CMU Cond. vertically 24h @ 73.4±3.6°F; Cond. 8h @ 50±1°C followed by; Cond. 16h @ -40±1°C: total of 10 Cycle; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	AAMA 714 ASTM C 794	25	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance

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Thermal Cycling (lbf/in) 3 specimens; 1"; Plywood Cond. vertically 24h @ 73.4±3.6°F; Cond. 8h @ 50±1°C followed by; Cond. 16h @ -40±1°C: total of 10 Cycle; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	AAMA 714 ASTM C 794	22	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance
Thermal Cycling (lbf/in) 3 specimens; 1"; OSB <sup>1</sup> Cond. vertically 24h @ 73.4±3.6°F; Cond. 8h @ 50±1°C followed by; Cond. 16h @ -40±1°C: total of 10 Cycle; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	AAMA 714 ASTM C 794	12	≥ 5
Visual examination [Pass/Fail]		Pass	No change in appearance
Crack Bridging Ability, Category I [Pass/Fail] 5 specimens; 51mm x 51mm x 20mil application; Cond. 14d @ 23±2°C & 50±10%RH to cure film; Cond. 7d @ 70±2°C; Test 10 cycles @ -26°C; Test Rate = 3.2mm/h from 0.0mm to 3.2mm Expose to 550 ml head of water for 24h extended position	ASTM C 1305/ AAMA 714 Section 5.6	Pass	No cracking, splitting, pinholes, or other conditions in the area of the joint in the substrates
Water Immersion (lbf) 3 specimens; 1" wide; Cure 21d @ 73.4±3.6°F & 50±5%RH followed by; Immersed in distilled water for 7d @ 73.4±3.6°F Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	AAMA 714 Section 5.7 ASTM C 794		
Anodized Aluminum After Immersion		6	≥ 5
Visual examination		Pass	Note change in appearance
<b>Test Requirements on a Damp Surface (optional classification)</b>			
Damp Surfaces (lbf) 3 specimens; 1" x 1/16"; substrate immersed for 24h prior to application Cure 7d @ 73.4±3.6°F & 50±5%RH; Test Cond. 73.4±3.6°F & 50±5%RH; Rate 2.0"/min	ASTM C 794		
Damp Cement Mortar Slabs		13	≥ 5
Moisture Vapor Permeance (Perms) 3 specimens; Cure 14d @ 23±2°C & 50±10%RH to cure film; Test Cond. 21±1°C & 50±2%RH	ASTM E 96 Procedure B	21	≥ 10

Note(s): 1- OSB moisture content = 7%.

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