TECHNICAL DATA SHEET

Air-Bloc® LF (new and improved)

Air Barrier Liquid Flashing and Detail Sealant

Physical property	Typical value	Test method
Color	Light gray blue	-
Application Temperature	Minimum 15°F (-9°C)	-
Service Temperature	-40°F to 200°F (-40°C to 93°C)	-
Open Time @ 73°F (23°C), 50% RH	Approx. 45 minutes	-
Drying Time @ 73°F (23°C), 50% RH	1-2 hour skin time 16h cure-though 40mils (1mm)	-
Tensile Elongation	740%	ASTM D412 (Die C)
Tensile Strength	280 psi (1.983 MPa)	ASTM D412 (Die C)
Crack Bridging of 40mil (1mm) Coating	No cracking, 10 cycles at -15°F (-9°C)	ASTM C1305
VOC Content	10 g/L	Formula Calculation
Solids Content	99%	Formula Calculation
Nail Sealability	Pass	AAMA 711
Asphalt Compatibility	Pass Level 3, 14 days @176°F (80°C) Under Henry and CCW asphalts	AAMA 713
Low Temperature Flexibility @ -22°F (-30°C)	Pass	CGSB 37-GP-56M, ASTM D552
Water Vapor Permeance of 25mil (0.6 mm) Coating	6.5 Perms (372 ng/(m^2*Pa*s)) 10.4 Perms (595 ng/(m^2*Pa*s))	ASTM E96 desiccant method ASTM E 96 water method
Joint Movement	Pass +/- 25%	ASTM C719 per ASTM C920
Humidity Resistance	Pass – no deleterious effects	ICC- AC212, ASTM D2247
Peel Adhesion on Cement Mortar Slab[1] and Aluminum[2]	5lb/in (875 N/mm) Initial[1] and after UV[1], High-Temp[1] Level 3 176°F/80°C, Water Immersion[2], Thermal Cycling[1], Damp Substrate[1]	ASTM C794 per AAMA 714
Solids Content	99%	ASTM E2178

Codes and Approvals

American Architectural Manufacturers Association "AAMA" 714-15 Voluntary Specification for Liquid-Applied Flashing Used to Create a Water Resistive Seal Around Exterior Wall Openings in Buildings, Meets All Requirements

ASTM International C920 Standard Specification for Joint Sealants. Type S, Grade NS, Class 25, Use NT

Description

Air-Bloc® LF is a moisture cure, single-component, elastomeric, non-sag grade sealant using a highly advanced Silyl-Terminated Polyether (STPE) polymer. It cures through reaction with airborne moisture to provide a tough, seamless, rubber-like membrane with excellent weathering and water resistance. **Air-Bloc® LF** is intended for general use as a liquid flashing and joint sealant and as an accessory in **Henry®** air and water resistive barrier systems.

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Air-Bloc® LF Air Barrier Liquid Flashing and Detail Sealant

Features

- Flash complex, multi-plane conditions with no measuring, cutting or build-up in corners
- Compatible with all Henry® air barrier products - use one material for all liquid flashing and sealant details
- Tough and elastic, zero shrinkage material - permanently cover and fill joints and gaps
- Moisture-curing, non-sag compound dispensed from sausages – easy, conventional application
- High performance – meets or exceeds the requirements of AAMA 714
- Low VOC, low odor – legal in all 50 states, use indoors and outdoors
- Wide installation temperature, adheres to damp masonry and concrete – versatile and forgiving installation
- Signature color and branded packaging – easy identification in the field
- Paintable with latex or oil-based paints

Usage

Air-Bloc® LF is designed for use as a liquid flashing and joint sealant in commercial and residential building envelope applications. Product has been tested for compatibility and performance in **Henry® Blueskin®, Fortiflash®, Metal Clad®, CCW-705, Air-Bloc®, Barritech™** and **WeatherSmart®** wall systems**. Air-Bloc® LF** is used in areas such as rough openings, angle changes, sheathing joints, expansion joints, cracks, holes, membrane splices and membrane terminations. The product is most often installed in systems which are covered with an exterior cladding or interior finish. **Air-Bloc® LF** can also be used in permanently exposed exterior/interior caulking applications, where it can be painted.

Application

Surface Prep: Substrates should be dry and clean of oil, dust, excess mortar, sharp protrusions, standing water, and frost. Damp concrete and masonry are acceptable but must not be wet to touch. Acceptable substrates include precast concrete, cast-in-place concrete, concrete block, primed steel, aluminum mill finish, anodized aluminum, galvanized metal, exterior-grade gypsum board, OSB, plywood and foil or coated glass faced polyiso foam sheathing. Treat the raw edges of gypsum board with a Henry contact adhesive. Masonry joints shall be struck flush or tooled. Concrete surfaces must be smooth and without large voids, spalled areas, or sharp protrusions. Where curing compounds are used, they must be clear resin based, without oil, wax or pigments. Fill open joints, seams, and cracks from 1/4" (6 mm) up to 1" (25 mm) wide with **925 BES Sealant** or **Air-Bloc® LF** and backer rod prior to final application of **Air-Bloc® LF.**

Liquid Flashing: Apply a beads of **Air-Bloc® LF** to substrate using appropriate caulking gun and then spread using a trowel, putty knife or squeegee to achieve a monolithic coating. Regularly monitor wet mil thickness during application to assure adequate coverage. **Air-Bloc® LF** can be applied in a single coat. Spread **Air-Bloc® LF** within its open time to cover rough openings, corners and other conditions as shown in Henry's details. For corners, extend at least 3" (75 mm) onto each side of angle. For rough openings, extend **Air-Bloc® LF** at least 3" (75 mm) onto wall and return into opening at least 3" (75 mm), or terminate as required in Project details.

Sheathing Joint treatment for Henry Air-Bloc® and Barritech™ Liquid Membrane Systems: Apply a continuous 3/8" (9 mm) bead of **Air-Bloc® LF** over the joint. Press to an approximate 2-inch (50 mm) width ribbon centered over the joint. Provide a smooth application, feathered to wall substrate. Sheathing joint prep can be applied before or after the liquid membrane. First component must be cured firm before coating with second.

Flashing/Membrane Terminations and Laps: Apply a continuous ¼" to $^3/_8$" (6 to 9 mm) bead of **Air-Bloc® LF** over the edge or lap. Tool and feather the product over the termination or lap.

Expansion and Control Joints in Concrete and Masonry: Joint shall be ¼" (6mm) to 1" (25 mm) width. Remove debris or mortar droppings to provide room for backer rod. Insert backer rod and place to provide at least ¼" (6 mm) but not more than ½" (12 mm) depth of sealant. Fill joint with **Air-Bloc® LF** and tool, making sure sealant wets into sides of joint.

Coverage Rates for Liquid Flashing: Henry specified application rates appear below:

- **Smoother Surfaces:** Apply at minimum wet film thickness of 25 mils (0.6 mm). Theoretical yield of 10 ft^2 (0.9 m^2) per 20 fl-oz (591 mL) sausage.
- **Rougher and More Porous Surfaces:** Apply at minimum wet film thickness of 40 mils (1 mm). Theoretical yield of 6.3 ft^2 (0.6 m^2) per 20 fl-oz (591 mL) sausage.

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Lineal Foot Yield per 20 fl-oz Sausage (US Units):

Width →	1”	2”	3”	4”	6”	9”	12”
25 mils	120.31	60.16	40.10	30.08	20.05	15.04	10.03
40 mils	75.24	37.62	25.08	18.81	12.54	8.36	6.27

Lineal Meter Yield per 591 mL Sausage (SI Units):

Width →	2.5 cm	5 cm	7.5 cm	10 cm	15 cm	22.5 cm	30 cm
0.6 mm	36.67	18.34	12.22	9.17	6.11	4.58	3.06
1.0 mm	22.93	11.47	7.64	5.73	3.82	2.55	1.91

The above reference chart is based on theoretical coverage calculations for a smooth surface. Rough surfaces can reduce coverage rates significantly depending on texture and porosity of surface. Each sausage of **Air-Bloc® LF** yields about 27 ft (8.2 m) of 3/8” (9 mm) bead.

Limitations: **Air-Bloc® LF** can be left exposed permanently to UV, but it is used in Henry air barrier systems which have finite UV exposure. Obey UV exposure limits of the Henry air barrier system. **Air-Bloc® LF** is not intended as a traffic-resistant or wear-resistant surface. Control depth to maximum ½” (12 mm) using backer rod. Do not install over wood substates having moisture content 20% or more. Do not allow contact with sealants and membranes by others without approval from **Henry®**

Packaging

20 fl-oz (591 mL) foil skin sausages, 12 per box

Storage

Shelf life of **Air-Bloc® LF** is 15 months in unopened sausages when stored at or below 80°F (27°C) at 50% RH max. Store in an area protected from high heat, direct sunlight, and precipitation.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on Henry’s® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

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