1200 Vapor Permeable
Liquid Applied Air Barrier

Product:
1200 Vapor Permeable Liquid Applied Air Barrier is an acrylic membrane that cures to form a seamless membrane around the building envelope.

Uses
1200 VP is intended as a breathable air barrier for all types of cavity wall construction. 1200 VP has been formulated to protect the building envelope from air filtration and ex-filtration, while still allowing the transmission of water vapor to prevent condensation in the wall assembly.

System Components:
1200 VP is a spray applied coating providing a 100% bond to the substrate by manufacturer accredited applicators.

EcoFlash Transition Strip is a self-adhering smooth surfaced modified bitumen membrane (transition strip). These strips come in multiple widths and should be located at beams, columns, changes in substrate material, and similar joints or connections to provide continuity of the air/vapor barrier assembly.

1200 Primer is the primer for the EcoFlash Transition Strip.

1200 Mastic is used to fill any cracks or voids in the masonry that will be receiving the system.

1200 VP System meets all of the principal requirements and design criteria for a properly constructed air barrier for the building envelope, namely:

Advantages:
- Water-based; Low odor;
- Breathable - high water vapor-permeance;
- Seals around penetrations and brick ties;
- UV resistant;
- Seamless monolithic membrane;
- Adheres fully to CMU, concrete, wood, OSB, exterior drywall, metal and other construction surfaces;
- VOC is less than 20 g/l
- Water resistant – performs as a rain screen

Leeds Data:
1200 Vapor Permeable Liquid Applied Air Barrier is considered a GREEN product and can be used toward LEEDS building credits.

Limitations: Can not be applied when ambient temperatures are expected or are below 41°F. Can not be applied to wet or frozen walls. 1200 VP must be stored at temperatures above 32°F.

Technical:
Applicable Standards: Meets and exceeds ASTM E2178 for Air Leakage. Meets the requirements of ASTM E96 for water vapor permeance. See Physical Properties Chart.

Environmental Considerations: 1200 VP Air Barrier Membrane is non-toxic, non-carcinogenic and environmentally friendly.

Preparatory Work:
Refer to Examination section of specification for substrate requirements by others (new construction).

Under the work of the air barrier section of work, the following preparatory requirements include:

1) Removing loose or foreign matter which might impair adhesion of materials.
2) Filling any voids with proprietary mastic substrate filler (1200 Mastic).
3) Cleaning and priming (1200 Primer) substrate joint/connection surfaces and applying the self-adhering EcoFlash (transition strip).
4) Substrate must be dry and free of frost.

Methods: 1200 VP system is applied using manufacturer approved applicators who undergo extensive training and are monitored for quality performance.

Typical Physical Properties*:

Property	Test Method	Test Results
Type		Elastomeric Emulsion
Air Leakage Rate	ASTM E2178	0.0004 cfm/ft² under a pressure differential of 0.3" water. On concrete block and drywall.
Elongation (%)	ASTM D412 (die C)	1200 %
Low-Temperature Flexibility	ASTM D1970	Flexible to -15°F
Peel Adhesion to Concrete	ASTM D903	9.1 lbf/in.
Peel Adhesion to CMU	ASTM D903	20.25 lbf/in.
Peel Adhesion to Ext. Sheathing	ASTM D903	20 lbf/in.
Water Vapor Permeance	ASTM E96 (B)	12 perms
VOC		<20 gm/liter
Water-tightness	CAN/ CGSB 37.58-M86	Pass
UV Exposure		Unlimited
Application Temperature		Minimum 41°F/5°C
Coverage		50-60ft²/gal
Thickness	30-35 mils wet	20 mils dry
Dry Time (Full cure)		12-24 hrs.
Color		Gray
Application Method		Brush, Roller, Spray

Installation:
Applied over the exterior face of the inner cavity wall, 1200 VP is sprayed onto surfaces using alternating horizontal and vertical passes to ensure complete coverage of the substrate and transition strip material. Masonry anchors or other penetrations are sealed air tight. Transition joints are sealed using transition strip over firm bearing at beams, columns, changes in substrate material and similar joints or connections including at window frame perimeter and door frames.

Generally transition strips are applied so that a minimum of 3" coverage is achieved over both substrates and with 1" of full contact over window or door frames.

1200 VP is applied within the recommended application ambient temperature of 41°F or higher.

Airless spray equipment having a minimum pressure of 3000 psi is used to apply the 1200 VP.

The coverage rate of the completed membrane application is 23 to 30 sq.ft./gal. that provides seamless, monolithic surface with a final thickness of 30-40 mils dry.

Given average conditions and standard thickness the product will dry to the touch in 2-4 hours. Full curing time is within 24 hours.

Board type cavity wall insulation is then adhered to the 1200 VP membrane after an initial set time of approximately 1 to 2 hours, to prevent convection currents occurring behind the insulation. Once applied the insulation is firmly and permanently adhered into place and cannot be removed. Wedges or clips, normally used to secure the insulation may be reduced.

Availability:
1200 VP Liquid Air Barrier System is available across the United States and throughout Canada from dealers. Contact Marflex Customer Service for the closest Dealer/Applicator. Current price lists available from Dealers/Applicators along with standard conditions of sale.

Product Only Warranty:
The information herein is the best available relating to 1200 VP and the recommendations contained herein are based on tests believed to be reliable.

Marflex Building Solutions warrants the product to be of good quality and manufactured to meet published physical properties and quality control standards and will replace or refund the purchase price of this product if proved defective within one year of date of application. This warranty does not apply if there is no working drainage system.

Except as specifically provided herein, Marflex Building Solutions makes no warranty, express, implied or oral including but not limited to any warranty or merchantability, fitness for a particular purpose, usage of trade, course of dealing or course of performance in connection with this agreement. In no event shall Marflex be liable on any such warranty with respect to the Marflex 1200 VP Liquid Air/Barrier Membranes. Marflex shall not be liable for incidental or consequential damages including, but not limited to damages of the structure, its replacement, contents or personal injury. Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Maintenance:
1200 VP membrane does not require any maintenance. Damaged areas are easily repaired by spraying over affected areas. Re-coating and/or Cold joints are not a problem; newly applied material easily blends with existing 1200 VP material to provide a monolithic membrane.

Technical Services:
Technical support is available from Marflex Building Solutions. Call toll free: 1-800-498-1411
Tel: (513) 422-7285

Specification assistance.

Site advice and recommendations.

Related References:
The state of Massachusetts criteria for Air Barriers section 1304.3.

National Master Specification (NMS) Section 07196 Air Barriers (Descriptive / Proprietary).

"An Air Barrier for the Building Envelope, National Research Council Canada, Proceedings Building Science Insight '86."

Construction Specifications Canada (CSC) Tek-Aid 07195 Air Barriers (Digest and Mater Specification).

HEALTH AND SAFETY INFORMATION IS GIVEN IN THE MATERIAL SAFETY DATA SHEET AND THE PRODUCT DATA SHEET AVAILABLE FOR THIS PRODUCT. THESE SHOULD BE READ AND UNDERSTOOD BEFORE USING THIS PRODUCT.

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