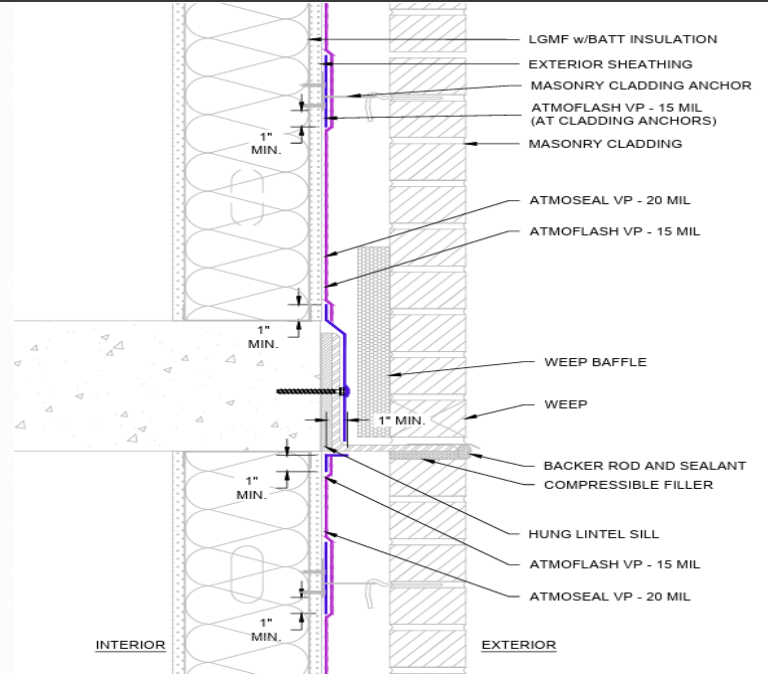
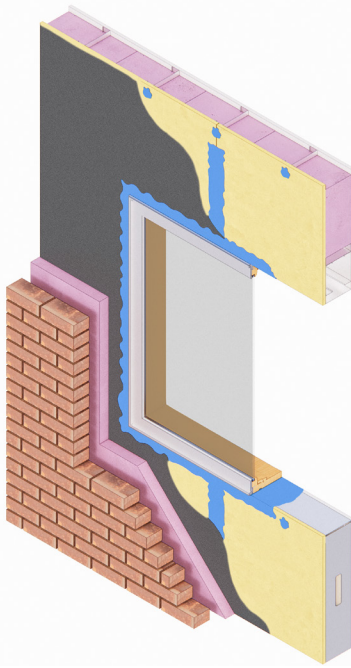




System: AtmoSeal VP

Application: STPE Permeable Liquid-Applied Air and Water Barrier | Minimum System Thickness: 20 mils

SYSTEM AT A GLANCE

Product	Description	Application	Unit Volume	Application Thickness and Coverage
AtmoSeal VP	Single-component, vapor-permeable, silyl-terminated polyether (STPE), fluid-applied air barrier membrane.	Field membrane	5 gallon pail 55 gallon drum	20-25 mils (WFT=DFT) 64-80 ft ² per gallon depending on substrate porosity
AtmoFlash VP	Single-component, vapor-permeable, silyl-terminated polyether (STPE), flashing and detailing compound for air barrier applications.	Detailing	20 oz. sausages	12-15 mils (WFT=DFT) Sheathing joints, 1" extension each side: 100-125 lf Fastener heads (2-3/8" dia. spot): 450-500 Transitions/corners, 4" band: 50-63 lf Detail surface: 17-21 ft ²

DESCRIPTION

The AtmoSeal VP System is a solvent-free fluid-applied, vapor-permeable air and water barrier for above-grade wall assemblies, consisting of AtmoSeal VP spray or roller-applied STPE membrane and AtmoFlash VP gun-applied STPE flashing and detailing compound. AtmoSeal VP cures to a seamless, flexible membrane that resists air leakage and bulk water intrusion while permitting outward drying, bonds to most common construction substrates including damp surfaces without priming, and may remain exposed to UV for up to 12 months. AtmoFlash VP maintains barrier continuity at rough openings, joints, transitions, penetrations, and terminations.

BENEFITS

- Field membrane exceeds 20 perms at 20 mil thickness (DFT) allows the wall assembly to breathe, limiting the potential for trapped moisture.
- Adheres to and cures on damp substrates and can be applied in wet weather, reducing construction delays.
- Meets the most demanding commercial code requirements. ASTM E84 Class A, AAMA 714-19, and compatible with NFPA 285 wall assemblies.
- Wet mil thickness is dry mil thickness, no loss of material during cure.
- Solvent and isocyanate free. Contains less than 21g/L VOC.
- UV exposure limit of up to 12 months in any climate.

LIMITATIONS

- Not for use below-grade or in locations that may be continuously immersed in water.
- Not recommended for application to insulated concrete forms (ICF).
- Adhesion testing recommended for application with asphaltic and butyl sealants and adhesives.

SPECIFICATIONS, DRAWINGS, AND TECHNICAL ASSISTANCE

The most current specifications and drawings can be found on www.eproinc.com. For project specific details contact EPRO directly, or the local EPRO representative.

Site conditions, performance goals, and budget determine which system is more appropriate for a given project. For more information regarding product performance, testing, plan review, or general technical assistance, please contact EPRO.

WARRANTY

EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this system to be free from defects. EPRO makes no other warranties with respect to this system, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

TYPICAL PHYSICAL PROPERTIES

Physical Property	Test Method	Value
Film Color (AtmoSeal VP)		Dark Gray
Solids Content.....		99%
Temperature Resistance		248 F (120 C)
Sag up to 60 mils WFT.....		Negligible
UV and Weather Resistance		Excellent
Skin Time		40–50 minutes ¹
Water Vapor Transmission	ASTM E 96	20.5 perms ²
Hardness, Shore A	ASTM C 661	21
Tensile Strength	ASTM D 412	180 psi (1.24 MPa)
Elongation at Break	ASTM D 412	230%

¹at 70°F (21°C) and 50% RH

²Water vapor transmission tested at 20 mil DFT film thickness.

ABAA S0008-2021: STANDARD FOR AIR AND WATER RESISTIVE BARRIERS – FLUID APPLIED MEMBRANE – MATERIAL SPECIFICATION

Physical Property	Test Method	Criteria	Results
Water Vapor Transmission	ASTM E 96 (Wet Cup).....		20.5 perms
Water Vapor Transmission	ASTM E 96 (Dry Cup).....		13.6 perms
Air Permeance	ASTM E 2178	≤0.004 cfm/ft ² at 1.57 psf.....	0.001 cfm/ft ² at 1.57
Alkali Resistance	ASTM D 543.....	No deleterious effects	Pass
Elongation at Break	ASTM D 412	≥200%	Pass
Tensile Strength	ASTM D 412		180 psi
Freeze Thaw Resistance	ASTM E 2485	No surface changes	Pass
Fungi Resistance.....	ASTM C 1338.....	No growth	Pass
Gap Bridging	ABAA T0004.....	No surface changes	Pass
Low Temperature Flexibility.....	ASTM D 522.....	No surface changes	Pass
Peel Adhesion to Concrete	ASTM C 794.....	≥5 pli	Pass
Pull Adhesion	ABAA T0002.....	≥16 psi.....	Pass
Water Absorption by Diffusion.....	ASTM C1498		1.2%
Water Resistance.....	ASTM D2247	No surface changes	Pass

ASTM E84: SURFACE BURNING CHARACTERISTICS (CLASS A)

Physical Property	Test Method	Criteria	Results
Flame Spread	ASTM E 84.....	≤25	Pass
Smoke Developed	ASTM E 84.....	≤450	Pass

NFPA 285 COMPLIANCE

The AtmoSeal VP system is compliant with multiple wall assemblies. Consult the AtmoSeal VP NFPA Reference Sheet for additional information.

AAMA 714-19: Voluntary Specification for Liquid-Applied Flashing used to Create a Water-Resistive Seal around Exterior Wall Openings in Buildings - AtmoSeal VP

Physical Property	Test Method	Criteria	Results
Adhesive Strength to Substrates.....	ASTM C 794.....	≥5 pli	Pass
Water Penetration Around Nails.....	ASTM D1970	1.2 in (31 mm) of water.....	Pass
Water Vapor Permeability.....	ASTM E 96.....	≥10 perms at application thk	Pass
Elevated Temperature.....	AAMA 711, ASTM C794.....	≥5 pli	Pass
Thermal Cycling.....	AAMA 711, ASTM C794.....	≥5 pli	Pass
Water Immersion	AAMA 711, ASTM C794.....	≥5 pli	Pass
Accelerated UV Aging	ASTM G154, ASTM C794.....	≥5 pli	Pass
Crack Bridging.....	ASTM C1305	550mm 24hr with 1/16" crack	Pass

ASTM E2357: Standard Test Method for Determining Air Leakage of Air Barrier Assemblies

Physical Property	Test Method	Criteria	Results
System Air Leakage	ASTM E 2357	≤ 0.2 L/s.m ² at 75 Pa	Pass
System Air Leakage	ASTM E 2357	≤ 0.04 cfm/ft ² at 1.57 psf.....	Pass