

ProPerm VP®

Fluid-Applied, Vapor-Permeable, Water-Based,
Vapor-Retarding, Water-Resistive, Air Barrier



SPECIFICATION DATA SHEET

BASIC USES

- Applied to exterior wall assemblies where it functions as a vapor-permeable air and water-resistive barrier. Pecora ProPerm VP® effectively blocks air and liquid water movement and limits the passage of moisture vapor through the building envelope. Pecora ProPerm VP® is designed for use on concrete including block and precast, exterior grade gypsum sheathing, plywood, OSB and many other common building substrates.

MANUFACTURER

Pecora Corporation

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PRODUCT DESCRIPTION

Pecora ProPerm VP® is an integral part of the ProPerm vapor-permeable air barrier system. Pecora ProPerm VP® is a water-based, single component, primerless, elastomeric, cost effective, fluid-applied air barrier membrane for exterior wall assemblies where it functions as an air and moisture vapor retarder. Applied in a single coat this elastomeric weatherproofing membrane provides superior protection from moisture vapor and air intrusion contributing to a seamless, durable airtight building envelope.

Product Advantages:

- Performs as a vertical odor containment barrier when used with odor control systems.
- Vapor-Permeable: Allows for vapor diffusion.
- Saves on labor cost. Primerless and can be applied in one single coat by spray or roller.
- Good weatherability: UV and water resistant once fully cured.
- Low VOC: compliant in all areas of the U.S.

Limitations: Pecora ProPerm VP® should not be used in the following applications:

- Do not use on below grade applications.
- Dilution or thinning with water, solvents or paint thinner is not recommended.
- Do not use if rain is imminent.
- Do not store material at temperatures below 25°F.

TECHNICAL DATA

Applicable Standards:

Pecora ProPerm VP® complies with air leakage requirements prescribed by individual state building and energy codes when tested in accordance with ASTM E2178 and E2357.

PACKAGING

- 5 gallon (18.9L) pails
- 50 gallon (189L) drums

COLOR

- Grey

INSTALLATION

See related products:

The following products are part of the Pecora ProPerm VP® Air Barrier System:

- Pecora ProPerm VP® Air Barrier Coating.
- Pecora XL Flash Liquid Flashing and Joint Filler.
- Pecora AVB Air & Vapor Barrier Silicone Sealant.
- Pecora XL-Span Silicone Transition Membrane.

TYPICAL PHYSICAL PROPERTIES

Test Property	Value	Test Procedure
Drying time of 15 wet mil film at 73°F/50% RH	1 hr. on CMU substrate	Pecora Corporation
Coverage Rate, Theoretical	100 - 120 sq. ft. / gallon	Pecora Corporation
Application Temperature	Minimum 25°F – Max 95°F	Pecora Corporation
Modulus @ 100% Elongation, psi	32	ASTM D412
Elongation at Break, %	750	ASTM D412
Ultimate Tensile Strength, psi	85	ASTM D412
Recovery, %	>90	ASTM D412
Nail Sealability	Pass	ASTM D1970, 180°
Percentage Solids (weight), %	66	Pecora Corporation
VOC (g/L)	20	ASTM D3960
UV Resistance ¹	Pass	ASTM D4587
Pull-Off Adhesion	20psi, exterior sheathing (substrate failure) 70psi, concrete 60psi, OSB	ASTM D4541
Crack Bridging	Pass ²	ASTM C1305
Air Penetration of Building Materials, cfm/ft ² @ 75Pa (1.57psf)	0.00006 cfm/ft ²	ASTM E2178
Wall Assembly Air Penetration Resistance @ 75Pa (1.57psf)	0.0002 cfm/ft ²	ASTM E2357
Water Penetration Resistance	Pass	AATCC 127
Water Vapor Transmission, perms	21.5	ASTM E96 (water method)
Ultraviolet Light Exposure Assembly, QUV 5000 hrs	Pass	Accelerated Weathering ASTM G155
Surface Burning Characteristics	Flame Index 5 Smoke Index 15	ASTM E84
Cone Calorimeter/Heat of Combustion (9 mil DFT)	THR 8 MJ/m ² Peak HRR 75 kW/m ² EHC 4.9 MJ/kg	ASTM E1354
Asphalt Compatibility	Pass	AAMA 713

¹ Coating applied over fiberglass mat faced sheathing

² Testing conducted at 75°F.

PROPERM VP® COVERAGE RATES

Substrate	Coverage Rate sq ft/gal	Wet Film Thickness, mils	Dry Films Thickness, mils
Exterior Grade Sheathing	120	14	10
Plywood	100	14-16	10
OSB	100	14-16	10
Concrete Block	75 (two coats required)	20 (two 10 mil coats)	14

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Surface Preparation: Surfaces must be dry and free of all contaminants such as oil, grease, wax, dust, corrosion, tar, asphalt, loose aggregate, frost, form-release agents and decorative and protective coatings. Precast using form release agents must be sandblasted or mechanically abraded and blown or brushed dust free. All questionable surfaces should be tested for compatibility and adhesion prior to full scale application of fluid applied air barrier or flashings.

Application:

1. Complete all change of plane, joint and flashing with Pecora XL-Flash Liquid Flashing and Joint Filler before applying Pecora ProPerm VP®.
 - a. In sheathing over stud construction, detail sheathing joints with Pecora XL-Flash Liquid Flashing and Joint Filler. Tool as shown in Pecora details.
 - b. Flash window openings, inside-outside corners, base of wall, roofline, and other transitions with XL-Flash Liquid Flashing and Joint Filler. Please consult Pecora details for guidelines.
2. For transitions between building components with significant movement, use Pecora XL-Span transition system. Consult XL-Span specification data.
3. Pecora ProPerm VP® may be applied with a roller, brush, or airless spray equipment. Roller apply to exterior wall using a 3/8" nap roller over smooth surfaces and 1/2" nap roller over rough surfaces. Roller apply in a single coat at 10 - 16 wet mils (7 - 12 DFT). Porous substrates such as concrete block may require two coats at 10 wet mils (7 DFT) each. Refer to coverage rate table for substrate specific coverages. When applying the liquid material at ambient temperatures below 40°F (-10°C) or above 95°F (35°C) consult Pecora Technical Services.

Inspect for pinholes, voids or gaps in the substrate and repair per Pecora Corporation application instructions.

4. Spray apply in a single coat at 10 - 16 wet mils (7 - 12 DFT) through approved airless sprayer equipment. Porous substrates such as concrete block may require two coats at 10 wet mils (7 DFT) each. Refer to coverage rate table for substrate specific coverages.
5. Allow liquid coat to cure. Cure time will vary depending on temperature, substrate, and humidity. At 70°F and 50% humidity Pecora ProPerm VP® should be dry to touch in 1 hour.

Cleaning: Pecora recommends water for cleaning of any tools and pumping equipment.

Rain Screen Applications:

Pecora ProPerm VP may be successfully applied in rain screen applications following the required surface preparation and liquid flashing/joint filler installation as noted above. Rain screen applications will require the Pecora ProPerm VP to be applied at 25 - 30 wet mils via an airless sprayer or roller.

Shelf Life: 12 months from date of manufacture when stored in original unopened containers at temperatures above 40°F.

Precautions: Use with adequate ventilation and avoid breathing of the vapors. In closed areas, wear approved breathing apparatus, protective clothing and eye protection. Avoid contact with skin. Avoid ingestion.

**FOR PROFESSIONAL USE ONLY. KEEP
OUT OF THE REACH OF CHILDREN.**

AVAILABILITY AND COST

Pecora products are available from stocking distributors nationwide. For the name and telephone number of your nearest representative, call the number below or visit our website at www.pecora.com.

TECHNICAL SERVICES

Pecora representatives are available to assist you in selecting an appropriate product and to provide on-site application instructions or to conduct jobsite inspections. For further assistance call our Technical Service Department at 800-523-6688.

MAINTENANCE

Pecora ProPerm VP® may be exposed to six (6) months of continuous UV exposure. If exposed longer, contact our Technical Services Department for an inspection.

WARRANTY

Pecora Corporation warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of any product proven to be defective when used in strict accordance with our published recommendations and in applications considered by us as suitable for this product. The determination of eligibility for this warranty, or the choice of the remedy available under this warranty, shall be made in our sole discretion and any decision made by Pecora Corporation shall be final. This warranty is in lieu of any and all other warranties, expressed or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose and in no case will Pecora be liable for damages other than those expressly stated in this warranty, including but not limited to incidental or consequential damages.

FILING SYSTEMS

- CSI Master Format Designations
 - 07 25 00 - Weather Barriers
 - 07 27 00 - Air Barriers
 - 07 27 26 - Fluid-Applied Membrane Air Barriers

