

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

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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 20psi, exterior sheathing (substrate failure) | ASTM D4587 |
| Pull-Off Adhesion | 70psi, CMU | ASTM D4541, modified |
| Crack Bridging | 60psi, OSB Pass ² | ASTM C1305 |
| Air Penetration of Building Materials, cfm/ft ² @ 75Pa (1.57psf) | Pass | ASTM E2178 |
| Wall Assembly Air Penetration Resistance @ 75Pa (1.57psf) | Pass | 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 |

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.

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