

Pecora® XL-Perm^{ULTRA} NP

Fluid Applied, Non-Permeable STPU Air, Vapor & Water-Resistive Barrier Membrane



SPECIFICATION DATA SHEET

BASIC USES

- Applied to exterior wall assemblies where it functions as an air, vapor and water barrier. Pecora XL-Perm^{ULTRA} NP is used to control the movement of air, vapor and moisture within the building envelope. Pecora XL-Perm^{ULTRA} NP functions as a vapor blocking water resistive air barrier for use on concrete, concrete block, exterior gypsum sheathing, plywood, OSB and many other common building materials. Pecora XL-Perm^{ULTRA} NP exhibits excellent UV resistance and weatherability and is approved for extended UV exposure such as rain screen applications.

MANUFACTURER

Pecora Corporation
165 Wambold Road
Harleysville, PA 19438
Phone: 215-723-6051
800-523-6688
Fax: 215-721-0286
Website: www.pecora.com

PRODUCT DESCRIPTION

Pecora XL-Perm^{ULTRA} NP is an integral part of the non-permeable XL-Perm Air, Vapor & Water Barrier System, a four step approach for complete air, vapor and water barrier protection for your building envelope. Pecora XL-Perm^{ULTRA} NP is a primerless single component, high performance, elastomeric fluid applied STPU (Silyl Terminated Polyurethane) that combines the best of both silicone and urethane performance properties in order to function as an air, vapor and water barrier for exterior wall assemblies. Applied in a single coat, this durable elastomeric weatherproofing membrane provides two to three times the coverage of other fluid applied products. Pecora XL-Perm^{ULTRA} NP has excellent elasticity and crack bridging capabilities contributing to a seamless durable airtight building envelope.

Product Advantages:

- STPU chemistry allows enhanced compatibility with a diverse selection of wall components.

- Excellent weatherability: UV and water resistant.
- Performs as a vertical odor containment barrier when used with odor control systems.
- Wash out resistant.
- Saves on labor cost. Primerless and can be applied in a single coat.
- Non-Permeable.
- Water and air penetration resistant for normal and extreme weather conditions.
- Low VOC: compliant in all areas of the U.S.
- Contributes to creation of an air tight building envelope. With associated reduction in energy costs. (When properly installed).
- Can be used on damp substrates and green concrete.
- Can be used as a durable UV and water resistive barrier in rain screen applications.
- Asphalt Compatibility: Approved for use with self-adhered membranes with asphalt adhesives and asphalt based fluid

PACKAGING

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

COLOR

- Black

applied coatings. Consult Pecora Technical Service for guidelines.

Limitations: Pecora XL-Perm^{ULTRA} NP should not be used in the following applications:

- Do not use on below grade applications.
- Dilution or thinning with solvents or paint thinner is not recommended.

TECHNICAL DATA

Applicable Standards:

Pecora XL-Perm^{ULTRA} NP complies with air leakage requirements prescribed by individual state building and energy codes when tested in accordance with ASTM E2178 and E2357.

TABLE 1: TYPICAL PHYSICAL PROPERTIES

Test Property	Value	Test Procedure
Drying time of 20 wet mil film at 73°F/50% RH	1 hr. on CMU substrate	Pecora Corporation
Coverage Rate, Theoretical	80 – 90 sq. ft. / gallon	Pecora Corporation
Application Temperature	Minimum 20°F – Max 95°F	Pecora Corporation
Modulus @ 100% Elongation, psi	15	ASTM D412
Elongation at Break, %	500	ASTM D412
Ultimate Tensile Strength, psi	100	ASTM D412
Recovery, %	90	ASTM D412
Nail Sealability	No leakage	ASTM D1970, 180°
Percentage Solids (weight), %	85	Pecora Corporation
VOC (g/L)	30	ASTM D3960
UV Resistance ¹	Pass	ASTM D4587
Pull-Off Adhesion	>35psi, exterior sheathing (substrate failure) 80psi, CMU 80psi, OSB	ASTM D4541
Low-Temp -15°F Crack Bridging	Pass	ASTM C1305
Air Penetration of Building Materials, dfm/ft ² @ 75Pa (1.57psf)	0.00002	ASTM E2178
Water Penetration Resistance	Pass	AATCC 127
Water Vapor Transmission, perms ²	0.10	ASTM E96 Desiccant Method
Adhesion-in-Peel lbf/in, Mortar	10 lbf/in.	ASTM C794
Ultraviolet Light Exposure Assembly, QUV 5000 hrs	Pass	Accelerated Weathering ASTM G155
Wall Assembly Air Penetration Resistance cfm/ft ² @ 75Pa (1.57psf)	0.0033	ASTM E2357
Surface Burning Characteristics	Class A Flame Index 10 Smoke Index 45	ASTM E84
Cone Calorimeter/Heat of Combustion (15 mil DFT)	THR 6.8 MJ/m ² Peak HRR 126 kW/m ² EHC 5.4 (MJ/kg)	ASTM E1354
Asphalt Compatibility	Pass	AAMA 713

¹ Coating applied over fiberglass mat faced sheathing

² As tested on various exterior sheathing materials for composite performance. Consult Pecora Technical Service for further details.

Pecora® XL-Perm^{ULTRA} NP

Fluid Applied, Non-Permeable STPU Air, Vapor & Water-Resistive Barrier Membrane



SPECIFICATION DATA SHEET

INSTALLATION

See related products: The following products are part of the Pecora XL-Perm Air, Vapor and Water Barrier System:

- Pecora XL-Flash liquid flashing and joint filler
- Pecora XL-Perm^{ULTRA} NP fluid applied STPU coating
- Pecora AVB Air & Vapor Barrier Silicone Sealant
- Pecora XL-Span Silicone Transition Membrane

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 before applying Pecora XL-Perm^{ULTRA} NP.
 - a. In sheathing over stud construction, sheathing joints shall be tight and detailed with Pecora XL-Flash.
 - b. Window openings, inside-outside corners, base of wall, roofline, and other transitions shall be flashed with Pecora XL-Flash. Please consult Pecora air barrier application guide for guidance.
2. For transitions between building components with significant movement use Pecora XL-Span transition system. Consult XL-Span specification data.
3. Allow the XLFlash Liquid Flashing and Joint Filler to fully cure prior to applying the Pecora XLPerm^{ULTRA} NP coating directly over the flashing. Flashing cure times will vary based on ambient temperatures. Thirty (30) wet mils will cure in ~6 hours at 75°F/50%rh. Pecora XL-Perm^{ULTRA} NP may be applied with a roller, brush, or approved airless sprayer. Spray applications

require a minimum 5000 psi pressure with XHD 523 or 623 style tip. Roller apply to exterior wall assembly using vertical strokes. Use ½" nap roller over smooth surfaces and 5/8" nap roller over rough surfaces. Apply to recommended thickness of 17-20 wet mils (14-17 DFT). When applying the membrane at ambient temperatures below 20°F (-7°C) or above 95°F (35°C) consult Pecora Technical Services. Inspect for pinholes, voids or gaps in the membrane and repair as needed.

4. Allow product to cure, these times will vary depending on temperature, substrate, and humidity. At 70°F and 50% humidity Pecora XL-Perm^{ULTRA} NP should be dry to touch in 1 hour. Consult Pecora Technical Service for approved airless sprayer equipment specifications.

Rain Screen Applications:

Pecora XL-Perm^{ULTRA} NP 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 XL-Perm^{ULTRA} NP to be applied at a minimum 30 wet mils in a single coat.

Cleaning: Pecora recommends xylene for purging of pumps and components as well as cleaning of any tools. (Caution: Cleaning solvents may be flammable and toxic. Observe cleaning solvent manufacturers' precautions.)

Shelf Life & Storage: 12 months from date of manufacture when stored in original unopened containers at temperatures below 90°F. For application purposes, its is recommended that the material not be stored below 50°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.

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 MasterFormat Designations
 - 07 25 00 - Weather Barriers
 - 07 27 00 - Air Barriers
 - 07 27 00 - Fluid-Applied Membrane Air Barriers

