Since Pecora Architectural Sealants are applied to varied substrates under diverse environmental conditions and construction situations it is recommended that substrate testing be conducted prior to application.

**Pecora XL-Perm ULTRA NP**

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

**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
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Fax: 215-721-0286
Website: www.pecora.com

**PRODUCT DESCRIPTION**

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.
- Wash out resistant
- Saves on labor cost. Primerless and can be applied in a single coat.
- Excellent weatherability: UV and water resistant.
- 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.

**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

<table>
<thead>
<tr>
<th>Test Property</th>
<th>Value</th>
<th>Test Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drying Time of 20 wet mil film at 73°F/50% RH</td>
<td>1 hr. on CMU substrate</td>
<td>Pecora Corporation</td>
</tr>
<tr>
<td>Coverage Rate, Theoretical</td>
<td>80 – 90 sq. ft./gal.</td>
<td>Pecora Corporation</td>
</tr>
<tr>
<td>Application Temperature</td>
<td>Minimum 20°F – Max 95°F</td>
<td>Pecora Corporation</td>
</tr>
<tr>
<td>Modulus 100% Elongation, psi</td>
<td>15</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Elongation at Break, %</td>
<td>500</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Ultimate Tensile Strength, psi</td>
<td>100</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Recovery, %</td>
<td>90</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Nail Seablility</td>
<td>No leakage</td>
<td>ASTM D1970, 180º</td>
</tr>
<tr>
<td>Percentage Solids (weight), %</td>
<td>85</td>
<td>Pecora Corporation</td>
</tr>
<tr>
<td>VOC (g/l)</td>
<td>89</td>
<td>ASTM D1960</td>
</tr>
<tr>
<td>UV Resistance1</td>
<td>Pass</td>
<td>ASTM D4587</td>
</tr>
<tr>
<td>Pull-Off Adhesion</td>
<td>&gt;35psi, exterior sheathing (substrate failure) 80psi, CMU 60psi, OSB</td>
<td>ASTM D4541</td>
</tr>
<tr>
<td>Low-Temp -15°C Crack Bridging</td>
<td>Pass</td>
<td>ASTM C1305</td>
</tr>
<tr>
<td>Air Penetration of Building Materials, cfm³/ft² @ 75Pa (1.57psf)</td>
<td>0.00002</td>
<td>ASTM E3178</td>
</tr>
<tr>
<td>Water Penetration Resistance</td>
<td>Pass</td>
<td>ARCC 127</td>
</tr>
<tr>
<td>Water Vapor Transmission, perms²</td>
<td>0.10</td>
<td>ASTM E96 Desiccant Method</td>
</tr>
<tr>
<td>Adhesion-in-Peel lb/in, Mortar</td>
<td>10 lb/in.</td>
<td>ASTM C794</td>
</tr>
<tr>
<td>Ultraviolet Light Exposure Assembly, QUV 5000 hrs</td>
<td>Pass</td>
<td>Accelerated Weathering ASTM G155</td>
</tr>
<tr>
<td>Wall Assembly Air Penetration Resistance cfm³/ft² @ 75Pa (1.57psf)</td>
<td>0.0033</td>
<td>ASTM E2357</td>
</tr>
<tr>
<td>Surface Burning Characteristics</td>
<td>Class A</td>
<td>ASTM E84</td>
</tr>
<tr>
<td>Flame Index 10</td>
<td>Smoke Index 45</td>
<td></td>
</tr>
<tr>
<td>Cone Calorimeter/Heat of Combustion (15 mil DFT)</td>
<td>TNH 6.8 MJ/m²</td>
<td>ASTM E1354</td>
</tr>
<tr>
<td>Peak HRR 125 kW/m²</td>
<td>EHC 5.4 (MJ/kg)</td>
<td></td>
</tr>
</tbody>
</table>

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.

**PACKAGING**

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

**COLOR**

- Black

**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.

Since Pecora Architectural Sealants are applied to varied substrates under diverse environmental conditions and construction situations it is recommended that substrate testing be conducted prior to application.
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-PermULTRA 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-PermULTRA 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. Pecora XL-PermULTRA NP may be applied immediately over freshly applied XL-Flash. No extended XL-Flash cure times are required. Pecora XL-PermULTRA 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 1/2" 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-PermULTRA NP should be dry to touch in 1 hour. Consult Pecora Technical Service for approved airless sprayer equipment specifications.

Rain Screen Applications: Pecora XL-PermULTRA 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-PermULTRA 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: 12 months from date of manufacture when stored in original unopened containers at temperatures below 90°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