**BASIC USES**

- Designed as a system component to control the movement of air and moisture vapor through the building envelope. Pecora XL-PermUltra VP functions as a vapor retarding water resistive air barrier for use on concrete block, concrete, exterior gypsum sheeting, plywood, OSB and many other common building materials. Pecora XL-PermUltra VP exhibits excellent UV resistance and weatherability and is approved for use in 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-PermUltra VP is an integral part of the XL-Perm Air, Vapor & Water Resistive Barrier System, a four step approach for complete air and vapor barrier protection for your building envelope. Pecora XL-PermUltra VP is a primerless, single component, high performance, elastomeric fluid applied STPU (Silyl Terminated Polyurethane) that combines the best characteristics of silicone and urethane properties for exterior wall assemblies where it functions as an air and water barrier. Applied in a single coat via airless sprayer or roller, this durable elastomeric weatherproofing membrane provides two to three times the coverage of other fluid applied products. Pecora XL-PermUltra VP has excellent elasticity and crack bridging capabilities contributing to a seamless durable airtight building envelope.

**PACKAGING**

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

**COLOR:**

- Blue  
- Custom Colors Available

**Product Advantages:**

- STPU chemistry allows enhanced compatibility with a diverse selection of wall components.  
- Eliminates construction delays: Can be applied during inclement weather conditions.  
- Saves on labor cost: Primerless and can be applied in one single coat.  
- Excellent Weatherability: UV and water resistant.  
- Versatility: Can be sprayed or rolled.  
- Permeable, allows for water vapor diffusion.  
- Water and Air penetration resistant for normal and extreme weather conditions.  
- Low VOC, compliant in all areas of the U.S.

**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 14 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>85 – 110 sq. ft./gallon</td>
<td>Pecora Corporation</td>
</tr>
<tr>
<td>Application Temperature</td>
<td>Minimum 10°F – Max 122°F</td>
<td>Pecora Corporation</td>
</tr>
<tr>
<td>Modulus @ 100% Elongation, psi</td>
<td>30</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Elongation at Break, %</td>
<td>&gt;1000</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Nail Sealability</td>
<td>No Leakage</td>
<td>ASTM D1970, 180°</td>
</tr>
<tr>
<td>Percentage Solids (weight), %</td>
<td>78</td>
<td>Pecora Corporation</td>
</tr>
<tr>
<td>VOC (g/L)</td>
<td>&lt;100</td>
<td>ASTM D3960</td>
</tr>
<tr>
<td>VOC Emissions (TVOC)</td>
<td>&lt;2 ug (0.002 mg/cm²)</td>
<td>CDPH v1.1-2010 (CA Specification 01350)</td>
</tr>
<tr>
<td>UV Resistance1</td>
<td>Pass</td>
<td>ASTM D4567</td>
</tr>
<tr>
<td>Pull-Off Adhesion</td>
<td>&gt;7 psi on Concrete</td>
<td>ASTM D4561</td>
</tr>
<tr>
<td>Low-Temp -15°F Crack Bridging</td>
<td>Pass</td>
<td>ASTM C1305</td>
</tr>
<tr>
<td>Air Penetration of Building Materials, cm³/h²/ Pa² (1.57 psi)</td>
<td>0.00024</td>
<td>ASTM E2178</td>
</tr>
<tr>
<td>Water Penetration Resistance</td>
<td>Pass</td>
<td>ASTM C127</td>
</tr>
<tr>
<td>Water Vapor Transmission @ recommended 8-12 mil DFT</td>
<td>Method B 20.0</td>
<td>ASTM E96</td>
</tr>
<tr>
<td>Peel Strength Lbf/in/Aluminum</td>
<td>18pfi cohesive</td>
<td>ASTM D993</td>
</tr>
<tr>
<td>Adhesion-in-peel Lbf/in/mortar</td>
<td>16pfi cohesive</td>
<td>ASTM C794</td>
</tr>
<tr>
<td>Tensile</td>
<td>230 Psi</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Recovery</td>
<td>&gt;90%</td>
<td>ASTM D412</td>
</tr>
<tr>
<td>Ultraviolet Light Exposure Assembly/QUV 5000 hours</td>
<td>Pass</td>
<td>Accelerated Weathering G155</td>
</tr>
<tr>
<td>Wall Assembly Air Penetration Resistance @ 0.75Pa (1.57 psi)</td>
<td>0.0008</td>
<td>ASTM E2357</td>
</tr>
<tr>
<td>Flame Propagation, Non-Load Bearing Wall Assembly (UL EWS 0024)</td>
<td>Pass</td>
<td>NFPA 285, EI’s available on project basis</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 40</td>
<td></td>
</tr>
<tr>
<td>Cone Calorimeter/Heat of Combustion (10 mil DFT)</td>
<td>THR 3.8 Mj/m²</td>
<td>ASTM E1354</td>
</tr>
<tr>
<td></td>
<td>Peak HRR 124 kW/m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EHC 8.9 Mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

1 Coating applied over fiberglass mat faced
• Contributes to creation of an air tight building envelope reducing energy costs by 40% (when properly installed).
• Can be used on damp substrates and green concrete.
• Can be used as a durable UV and water resistant barrier in rain screen applications.
• Asphalt Compatibility: Approved for use with self-adhered membranes with asphalt adhesives and asphalt based fluid applied coatings. Consult Pecora Technical Service for guidelines.

Limitations: Pecora XL-Perm ULTRA VP 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:
XL-Perm ULTRA VP complies with air leakage requirements prescribed by individual state building and engery codes when tested in accordance with ASTM E2178 and ASTM E2357.

INSTALLATION
See Related Products: The following products are part of the Pecora XL-Perm Air and Vapor Barrier System:
• Pecora AVB Silicone, air & vapor barrier silicone sealant
• Pecora XL-Span, transitional seal membrane
• Pecora XL-Flash, liquid flashing and joint filler
• Pecora XL-Perm ULTRA VP, fluid applied STPU

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 VP.
2. Where necessary, in sheathing over stud construction, sheathing joints shall be detailed with Pecora XL-Flash. Tool as shown in Pecora details.
3. Window openings, inside-outside corners, base of wall, roofline, and other transitions shall be flashed corners, base of wall, roofline, and other transitions shall be flashed with Pecora XL-Flash to detail one pass before window/curtain wall transitions. Please consult Pecora details for guidance.
4. Contributes to creation of an air tight barrier and ASTM E2357.

Rain Screen Applications:
• Pecora XL-Perm ULTRA VP may be applied immediately over freshly applied XL Flash. No extended XL-Flash cure times are required. Pecora XL-Perm ULTRA VP may be applied with a roller or approved airless sprayer. Spray apply to exterior wall in a single coat at 10-14 wet mils (8-12 DFT) through approved airless spray equipment. Size 623 spray tip is recommended. Roller apply to exterior wall assembly using vertical strokes with slight diagonal slant. Use 1/2” nap roller over smooth surfaces and 5/8” nap roller over rough surfaces.

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.

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 XL-Perm ULTRA VP may be exposed to 24 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 00 - Fluid-Applied Membrane Air Barriers

For Professional Use Only. Keep Out of the Reach of Children.