XL-Perm^ULTRA^ VP
Vapor Permeable, Air and Water Resistive Barrier System
Application Manual
# Table of Contents

**Pecora Vapor Permeable Air Barrier System Product Offerings**

<table>
<thead>
<tr>
<th>Product Offerings</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Permeable Air &amp; Vapor Barrier Coating</td>
<td>4</td>
</tr>
<tr>
<td>Liquid Flashing</td>
<td>4</td>
</tr>
<tr>
<td>Silicone Transition Membrane</td>
<td>5</td>
</tr>
<tr>
<td>Joint Sealant/Adhesive</td>
<td>5</td>
</tr>
</tbody>
</table>

**Application Guidelines**

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preconstruction</td>
<td>9</td>
</tr>
<tr>
<td>Substrate Requirements</td>
<td>9</td>
</tr>
<tr>
<td>Jobsite Conditions</td>
<td>10</td>
</tr>
<tr>
<td>General Product Application</td>
<td>10</td>
</tr>
<tr>
<td>Substrate Coverage Rates</td>
<td>11</td>
</tr>
<tr>
<td>Spraying</td>
<td>12</td>
</tr>
<tr>
<td>Low Temperature Application</td>
<td>14</td>
</tr>
<tr>
<td>Rain Screens</td>
<td>15</td>
</tr>
</tbody>
</table>

**Installation Specific Guidelines & Details**

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheathing Joints</td>
<td>18</td>
</tr>
<tr>
<td>Inside/Outside Corners</td>
<td>19</td>
</tr>
<tr>
<td>Penetrations</td>
<td>21</td>
</tr>
<tr>
<td>Expansion Joints</td>
<td>24</td>
</tr>
<tr>
<td>Rough Window Openings</td>
<td>29</td>
</tr>
<tr>
<td>Flanged Windows</td>
<td>32</td>
</tr>
<tr>
<td>Foundations</td>
<td>33</td>
</tr>
<tr>
<td>Parapets</td>
<td>37</td>
</tr>
<tr>
<td>Brick Ties</td>
<td>40</td>
</tr>
<tr>
<td>Transitions (Dissimilar Materials)</td>
<td>42</td>
</tr>
<tr>
<td>Flexible Flashing Terminations</td>
<td>44</td>
</tr>
</tbody>
</table>

**Product Compatibility**

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved Air &amp; Vapor Barrier Accessory Products</td>
<td>48</td>
</tr>
<tr>
<td>Approved Common Building Components</td>
<td>50</td>
</tr>
</tbody>
</table>
Pecora Air Barrier System Product Offerings

Fluid-Applied, Vapor Permeable Air & Water Resistive Barrier Coating

Pecora XL-Perm<sup>ULTRA VP</sup> is a primerless, single component, high performance fluid applied STPU (Silyl Terminated Polyurethane) vapor retarding, water resistive air barrier coating that combines the best characteristics of silicone and urethane properties for exterior wall assemblies where it functions as an air and water barrier. It is resistant to ultra violet rays, ozone and airborne contaminants. 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-Perm<sup>ULTRA VP</sup> has excellent elasticity and crack bridging capabilities contributing to a seamless durable airtight building envelope.

Available packaging: 5-gal (18.9L) pails, 50-gal (189L) drums
Color: Blue (custom colors available)

Liquid Flashing & Joint Filler

Pecora XL-Flash is a unique one part, fast curing, non-sag elastomeric STPU (silyl-terminated polyurethane) gun grade, trowelable liquid flashing & joint sealant with many of the strengths of a two-component sealant but with the user-friendly ease-of-application properties of a one-component sealant. Pecora’s XL-Flash is specially formulated for the Air and Vapor Barrier Industry. It is resistant to ultra violet rays, ozone and airborne contaminants. It is designed to achieve high tensile and tear strengths, abrasion resistance and an average ultimate hardness of at least 55, yet still withstand 25% total joint movement. XL-Flash utilizes low VOC formulation that achieves primerless adhesion to most substrates.

Pecora XL-Flash is an integral part of the Pecora XL-Perm System, a four-step approach for complete air & vapor barrier protection for your building envelope.

Available packaging: 20 oz. (592mL) sausages
(Custom order – 200 gal min. batch size)
Color: Tru-White
Pecora Air Barrier System Product Offerings (cont.)

Silicone Transition Membrane

**Pecora XL-SPAN** is a preformed silicone transition membrane used in combination with Pecora AVB Silicone Sealant/Adhesive to form an air and water tight barrier at transitions between building façade components such as fenestration products, roof to wall, internal expansion joints, and other openings in AVB and WRB systems. For use in cavity wall and curtain wall transition seals.

Available packaging: 9” x 50’, 6” x 50’, 4” x 50’ rolls

**Sealant/Adhesive**

**Pecora AVB** is a single component 100% silicone sealant designed to adhere to low surface energy materials utilized in traditional and novel air and vapor barriers. Pecora AVB Silicone is designed as an integral component for transition seals between dissimilar materials in air and vapor barrier systems.

Pecora AVB is also utilized as the adhesive for the Pecora XL-SPAN Pre-formed Silicone Transition Membrane.

Available packaging: 20 oz. (592mL) sausage
Color: Black

**Pecora 890NST** is a one-part, neutral-curing, ultra-low modulus silicone sealant that will not stain natural stone such as marble and granite and that reacts with atmospheric moisture to form a durable, flexible building sealant. Pecora 890NST performs exceptionally well under dynamic conditions due to its ultra-low modulus, high extension/compression, recovery properties and strong adhesion to most building materials and accommodates long-term movement of +100-50% in properly designed joints.

Available packaging: 10.1fl oz (300mL) plastic cartridges, 20 oz. (592mL) sausage, 2-gal (7.57L) pails
Color: 13 standard colors available
Application Guidelines
Pecora XL-Perm\textsuperscript{ULTRA} VP
Vapor Permeable Air & Water Resistive Barrier System
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The information presented in this manual is an installation guideline only and will assist in the application of the Pecora XL-Perm\textsuperscript{ULTRA} VP Vapor Permeable Air & Water Resistive Barrier Fluid-Applied System. This guide does not cover all possible applications. Alternative application methods may be approved based on project specific jobsite conditions. Please consult the Pecora Technical Service Department for assistance prior to deviating from the guidelines published here.

**Preconstruction**
- Preconstruction meetings should be held with the appropriate design engineers, consultants, contractors, and/or building owners to ensure a continuous air & vapor barrier will be achieved across the building envelope.
- A project specific mock up and subsequent testing is highly recommended in order to determine whether the appropriate air & vapor barrier system has been selected.
- Ensure that all adjacent building components e.g. windows, doors, penetrations, etc. are installed in accordance with the manufacturer’s application instructions.
- Coordinate the installation of all flashings and sealants in order to prevent water infiltration and subsequent damages.

**Substrate Requirements**
- All substrates must be installed in accordance with manufacturer’s specifications.
- Exterior sheathing fasteners must be installed flush with the exterior face of the sheathing.
- Masonry joints should be struck flush with the CMU.
- All substrates must be clean, dry and frost-free and free of contaminants such as dirt, dust residue, oil and grease.
- Substrates should be flat and free of any fins or irregularities.
- Pecora XL-Perm\textsuperscript{ULTRA} VP is not approved for use below grade or areas subjected to intermittent or continuous water immersion.
- Any substrates that do not conform to the afore-mentioned requirements should be addressed prior to the installation of the Pecora XL-Perm\textsuperscript{ULTRA} VP air & vapor barrier system.
Jobsite Conditions

- When applying Pecora XL-Perm^{ULTRA} VP at ambient temperatures below 20°F (-7°C) or above 95°F (35°C) consult Pecora Technical Services.
- Products should be stored at temperatures above 50°F. Do not apply Pecora XL-Perm^{ULTRA} VP in rain or when rain is eminent.
- Pecora XL-Perm^{ULTRA} VP may be exposed to twenty four (24) months of continuous UV. Contact Pecora Technical Services if left exposed longer than twenty four (24) months.

General Product Application - XL-Perm Vapor Permeable Air & Water Resistive Barrier System

- Ensure all surrounding areas are protected from damage during installation of the Pecora XL-Perm^{ULTRA} VP coating.
- Complete all change of plane, seams, static joints and flashing with Pecora XL-Flash Liquid Flashing and Joint Filler before applying Pecora XL-Perm^{ULTRA} VP. When used as a flashing, apply XL-Flash at 20 - 40 wet mils.
  - Dynamic (moving) joints must be sealed with the Pecora 890NST Silicone Sealant or approved equivalent.
- For transitions between building components with significant movement use Pecora XL-SPAN transition system.
- Pecora XL-Perm^{ULTRA} VP may be applied with a roller or approved airless sprayer. Coverage rate: 80 – 110 sq ft/gallon
  - Spray apply to exterior wall in a single coat at a minimum 10 - 14 wet mils (8 - 12 DFT) through approved airless spray equipment. Size 517 to 623 spray tip is recommended.
  - Roller apply to exterior wall assembly using vertical strokes. Recommended nap size: Rough surfaces such as CMU = ½” to 5/8” depending on porosity. Smooth surfaces such as exterior sheathing = 3/8” to ½”.
  - When roller applying, penetrations and changes in plane will require a detail coat of XL-Perm^{ULTRA} VP at 10 - 14 wet mils (8 - 12 DFT) prior to full scale roller application.
  - Apply to recommended thickness of 10 - 14 wet mils (8 - 12 DFT).
- Inspect for pinholes, voids or gaps in the membrane and repair as needed.
- Allow product to cure, these times will vary depending on temperature, substrate and humidity. At 70°F and 50% humidity Pecora XL-Perm^{ULTRA} VP should be dry to touch in one (1) hour.
- Pecora XL-Perm Air Barrier System has a service temperature range of -20°F to 180°F.
Substrate Coverage Rate Guidelines

Pecora XL-Perm\textsuperscript{ULTRA} VP is a high solids, low mil, STPU based fluid applied coating for use on a variety of common building components. Differences in coverage rate can be expected due to the varying degrees of porosity found among common building components. The amount of substrate absorption in combination with inherent volume shrinkage will ultimately dictate the coating coverage rate and dry film thickness (DFT).

Pecora recommends a coating dry film thickness (DFT) of 8 – 12 mils applied in a single coat.

The Pecora Technical Service Group has evaluated a variety of common building components for coverage/absorption rate. All coatings were applied and cured at standard laboratory conditions. The following results were obtained:

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Wet Film Thickness, mils</th>
<th>Coverage Rate, sq ft / gal</th>
<th>Dry Film Thickness, mil</th>
</tr>
</thead>
<tbody>
<tr>
<td>USG Securock Glass-Mat Sheathing\textsuperscript{1}</td>
<td>14</td>
<td>110</td>
<td>10</td>
</tr>
<tr>
<td>Georgia Pacific DensGlass Sheathing</td>
<td>14</td>
<td>110</td>
<td>10</td>
</tr>
<tr>
<td>National Gypsum eXP Sheathing</td>
<td>14</td>
<td>110</td>
<td>10</td>
</tr>
<tr>
<td>CertainTeed GlasRoc Sheathing</td>
<td>19</td>
<td>85</td>
<td>10</td>
</tr>
<tr>
<td>Exterior Grade Plywood</td>
<td>19</td>
<td>85</td>
<td>10</td>
</tr>
<tr>
<td>OSB (Oriented Strand Board)</td>
<td>15</td>
<td>105</td>
<td>10</td>
</tr>
<tr>
<td>Concrete Block</td>
<td>22</td>
<td>75</td>
<td>10</td>
</tr>
</tbody>
</table>

\textsuperscript{1} Coverage rates are applicable to USG Securock (lightweight, regular & firecode X) with improved fiberglass facer mat.
Spray Application Standard Operating Procedures

Pecora (STPU) hybrid based, fluid applied air barrier coatings may be spray applied from a variety of electric and gas-powered airless sprayers. Below are the standard operating procedures for spraying, purging and cleaning the airless spray equipment.

**GENERAL SPRAYING PROCEDURE**
1. Start with clean pump, hose, gun and RAC tip.
2. **REMOVE SCREENS PRIOR TO SPRAYING.** Screens are typically located in spray gun handle and pump manifold.
3. Open pail or drum and inspect for surface skins. If present, remove skins with a strainer.
   - A. In order to prevent the coating from skinning in the open container during application (when not using a hopper), an approved solvent (see below) may be poured over the material resulting in a protective layer of solvent. A thin layer (1/8") will typically suffice. Solvent should be added after the inlet suction tube is placed into the open container.
4. Prime the pump and components with the RAC tip removed. Release the trigger once a steady stream of material is observed.
5. Insert RAC tip with arrow facing rear and spray a steady stream to clear the nozzle of any contaminants.
   - a. It may be necessary to zero out the pressure adjustment knob and turn it back to the desired pressure in order to prepare the pump for spraying.
6. Rotate RAC tip 180° with arrow front facing to initiate “fan” spray. Pull trigger to commence spraying.
   - a. If necessary, repeat the spray tip purging by rotating the tip 180° (arrow rear facing) to clear any contaminants.

**PURGING PROCEDURE (PUMP & COMPONENTS)**
1. Turn pump off and reduce pressure to zero.
2. Remove pump siphon from pail OR if using a hopper, disconnect the hopper hose and insert cap to seal hopper.
3. Insert pump siphon/hose into five-gallon pail of approved solvent.
4. Remove RAC tip from gun.
5. Turn on pump and set to “Prime” position. Flush pump into an approved solvent container.
6. Switch knob to “Spray” position.
7. Depress trigger on gun to continue the solvent flushing procedure of the hose and gun.
8. Place RAC tip back into gun.
9. Depress trigger to spray material. Switch tip back and forth 180° to clean and clear tip.
10. Switch pump to ‘Prime” and reduce pressure to zero.
11. Remove gun from hose and place cap on end of hose.
12. Increase pressure slightly to charge the line to ~700-800 PSI and turn off pump until next use.

**HOSE RECHARGING PROCEDURE**
1. Turn on pump and place siphon/hose into pail of approved solvent.
2. Run solvent through pump and line without gun attached to remove any contaminants.
3. Remove siphon/hose from solvent container. Place siphon into pail or reconnect hopper with air barrier coating.
4. Place pump in “Prime” position and prime pump.
5. Reattach gun and set pump to “Spray” position.
6. Begin spraying per Pecora’s guidelines regarding coverage rate and wet mil thickness.

**Recommended Solvents for Purging & Cleaning**

<table>
<thead>
<tr>
<th>Pecora STPU Air Barrier Coating</th>
<th>Approved Solvent/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>XL-Perm²STR AVP (vapor permeable)</td>
<td>100% Isopropyl Alcohol</td>
</tr>
<tr>
<td></td>
<td>100% Denatured Alcohol</td>
</tr>
</tbody>
</table>

**Note:** Pumps and components should be purged prior to and after spraying the coating. Purging is required at the end of the each work day. Do not allow the coating to dwell in the pump and components for extended periods of time. During any breaks in the work day, it is good practice to protect the spray guns and open pails/drum from ambient moisture by wrapping the spray gun and temporarily sealing any open containers.
Spray Equipment Requirements

Electric or Gas Powered Hydraulic Airless Sprayers, suggested models include, but not limited to, the following:

**Pecora XL-Perm** ULTRA VP STPU Vapor Permeable Coating
- Graco Ultra Max 695 Electric Airless Sprayer (3300 psi maximum)
- Titan Impact 740 Electric Airless Sprayer (3300 psi maximum)
- Graco TexSpray Mark V Electric Airless Sprayer (3300 psi maximum)
- Graco GH200 Gas Hydraulic Airless Sprayer (3300 psi maximum)
- Graco DutyMax GH 675DI Gas Hydraulic Airless Sprayer (7250 psi maximum)
  - Due to its increased flow rate (1.5 GPM) and operating pressure (7250 psi), the Graco DutyMax 675DI pump is recommended for large projects requiring high volume spraying and required for low material temperature applications.

### SPRAY EQUIPMENT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Airless Spray Equipment Specifications</th>
<th>XL-Perm ULTRA VP&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Operating Pressure @ nozzle/gun, psi</td>
<td>3000 / 5000&lt;sup&gt;2&lt;/sup&gt; / 5000</td>
<td>Installing a pressure gauge at the spray gun may be necessary in order to confirm adequate pressure is being achieved.</td>
</tr>
<tr>
<td>Minimum Flow Rate, gpm</td>
<td>0.8 / 1.5 / 1.5</td>
<td>High flow rates will be required for running multiple spray guns.</td>
</tr>
<tr>
<td>Minimum Hose Diameter/Maximum Hose Length</td>
<td>½&quot; / ½&quot; / ⅓&quot; / ⅓&quot; / ½&quot; / ⅓&quot; / ⅓&quot; / ⅓&quot; / ½&quot; / ⅓&quot;</td>
<td>Heavy duty type hoses required for pressures greater than 4000psi. Whips may be used. Consult Pecora Technical Service for recommendations.</td>
</tr>
<tr>
<td>Airless Spray Tip Type</td>
<td>RAC / RAC XHD</td>
<td>RAC = Reverse-A-Clean XHD = Xtreme Heavy Duty</td>
</tr>
<tr>
<td>Recommended Tip Size</td>
<td>519 / XHD 519</td>
<td>Tip sizing can vary and will be dependent on the product temperature/viscosity, desired fan width, and flow rate of pump. Tip sizes can range from: 517 to 623. Wider fan patterns and larger orifice sizes will require higher flow rates.</td>
</tr>
</tbody>
</table>

<sup>1</sup> Material temperature will have a significant effect on flow rate and subsequent atomization of the coatings. Low temperature material (<70°F) will require higher pressures in order to achieve proper atomization and consistent spray patterns.

<sup>2</sup> Higher pump pressure required for >50ft hose lengths.

### ACCESSORIES

**Material Hopper (Gravity Fed):**
- Graco #25D078 (25 gallon) or comparable model, by others
  - Pecora recommends the use of a material hopper in order to reduce material handling and prevent skinning of the moisture cure air barrier coatings. Any skins that form at the exposed surface of the coating have the potential to clog spray tips and cause inconsistent spray patterns and coverages. Polyethylene sheeting should be placed directly over the surface of the liquid coating in order to alleviate any skinning during application. This practice is critical when spraying at elevated ambient temperatures and humidity.

**Feed Pump – DRUM ONLY**
- Feed pumps allow pumping from sealed drums thus reducing material handling and material skinning.
Low Temperature Application Guidelines

The Pecora XL-Perm (STPU) hybrid-based fluid applied coatings (XL-PermULTRA VP and XL-PermULTRA NP) may be successfully applied at various ambient temperatures ranging from 0°F to 100°F. The guidelines published here address roller and spray applications including applying the coating at low temperatures. Applying the XL-Perm coatings will require the following steps prior to the roller or spray application:

- Ensure all surrounding areas are protected from damage during installation of the Pecora XL-Perm coatings.
- Complete all change of plane, seams, static joints and flashing with Pecora XL-Flash Liquid Flashing and Joint Filler before applying Pecora XL-Perm coatings. When used as a flashing, apply XL-Flash at 20 - 40 wet mils.
  - **Dynamic (moving) joints must be sealed with the Pecora 890NST Silicone Sealant or approved equivalent.**
- For transitions between building components with significant movement use Pecora XL-SPAN transition system.

**XL-Perm Coating General Installation Guidelines:**

- Pecora XL-Perm coatings may be applied with a roller or approved airless sprayer (refer to Technical Bulletins #210 & 211 for equipment requirements and standard operating procedures).
  - Spray apply to exterior wall in a single coat through approved airless spray equipment.
  - Roller apply to exterior wall assembly using vertical strokes with slight diagonal slant.
  - Recommended nap size:
    - Rough surfaces such as CMU = ½” to 5/8” (depending on porosity)
    - Smooth surfaces such as exterior sheathing = 1/2”
  - Apply coatings at recommended wet mil thickness.
- Inspect for pinholes, voids or gaps in the membrane and repair as needed.
- Allow product to cure; these times will vary depending on temperature, substrate and humidity. At 70°F and 50% humidity Pecora XL-Perm coatings should be dry to touch in one (1) hour.

**Low Temperature Applications**

The Pecora XL-Perm air, vapor and water resistive, fluid applied coatings utilizes a solvent based, hybrid (STPU) formulation which allows the coating to be successfully applied at a variety of temperatures including below freezing (32°F / 0°C). The following will apply to low temperature applications:

- **Areas to receive coating must be clean, dry and free of frost or any contaminating substances.**
- **Material temperature should be 65°F or greater.** Store coatings in a temperature controlled area, if possible.
- **Pecora XL-Perm coatings may be roller applied at ambient temperatures down to 5°F (-18°C).** The adjacent graph illustrates the change in product viscosity as temperature decreases.
- **Pecora XL-Perm coatings may also be spray applied** at low temperatures provided the material conditioning and equipment requirements published in Technical Bulletin #210.

**Low temperatures & relative humidity will reduce the cure rate of moisture cure, fluid applied coatings.** The Pecora XL-Perm hybrid (STPU) formulations are less sensitive to low temperature / relative humidity than competitive chemistries and will continue to cure at these conditions. See table below for skin times and cure rates at low temperature / relative humidity:

<table>
<thead>
<tr>
<th>Cure Conditions</th>
<th>Skin Time (Elastomer Formation), Time</th>
<th>Full Cure, Time</th>
<th>Coating Thickness, wet mils</th>
</tr>
</thead>
<tbody>
<tr>
<td>75°F / 50%RH</td>
<td>15 - 20 min</td>
<td>45 - 60 min</td>
<td>10 - 14</td>
</tr>
<tr>
<td>10°F / 30%RH</td>
<td>3 - 4 hrs</td>
<td>36 - 48 hrs</td>
<td>10 - 14</td>
</tr>
</tbody>
</table>
Rain Screens

The Pecora XL-Perm\textsuperscript{ULTRA} VP air & vapor barrier may be successfully installed in rain screen applications. The rain screen design is generally defined by the separation of cladding from a structural wall in an effort to manage moisture and energy transfer through a wall assembly. System components typically include metal cladding with open joints, a ventilation/drainage cavity, framing system, insulation (rock wool or polystyrene) and an air barrier. As a result of the rain screen design and subsequent open joints, up to 40% of the underlying components including the air barrier are exposed to UV, wind driven rain, etc.

In order to achieve a successful and durable air barrier application the coating must be resistant to UV and the elements. The Pecora XL-Perm\textsuperscript{ULTRA} VP air & water barrier coating’s unique STPU chemistry exhibits excellent UV resistance, weather-ability, washout resistance and color retention and is approved for use in rain screen applications.

The Pecora XL-Perm\textsuperscript{ULTRA} VP is available in a black formulation specifically for rain screen applications. Custom colors are also available (minimum batch quantities will apply). Pecora’s standard material warranty will apply to all rain screen applications.

Application Guidelines:

- All surface preparation requirements as noted in the afore-mentioned Product Application Guidelines must be met including sealing and flashing all seams, gaps and rough window openings with the Pecora XL-Flash Liquid Flashing and Joint Filler.
- When utilized in rain screen applications, the Pecora XL-Perm\textsuperscript{ULTRA} VP is applied at a minimum 30 wet mils in a single coat via an airless sprayer or roller.
Installation Specific Guidelines
Pecora XL-Perm\textsuperscript{ULTRA} VP
Vapor Permeable
Air & Water Resistive Barrier System
1. Fill all seams and static joints with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than ¼” will require a sealant backing. Sealant should be applied flush with exterior face of wall.

2. Extrude and tool XL-Flash over the sheathing joint in a minimum 2” wide band centered over the joint.
   a. XL-Flash thickness should be applied at 20 - 40 wet mils.

3. Apply the Pecora XL-Perm\textsuperscript{ULTRA VP} coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT).
   a. Exposed sheathing fasteners will be sealed during the XL-Perm\textsuperscript{ULTRA VP} Air & Vapor Barrier coating application. Properly installed sheathing fasteners will not require detailing prior to coating application.
   b. Any missed or improperly installed sheathing fasteners should be sealed with a dollop of the XL Flash Liquid Flashing & Joint Filler either before or after the XL-Perm\textsuperscript{ULTRA VP} Air & Vapor Barrier coating application.
1. Fill all seams and static joints with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than ¼” will require a sealant backing. Sealant should be applied flush with exterior face of wall.

2. Apply a minimum ½” fillet bead of Pecora XL-Flash to all inside corners.

3. Apply 20 - 40 wet mils of Pecora XL-Flash and extend a minimum 2” over the inside/outside corner areas. Liquid flashing must be applied to both sides of the corner.

4. Apply the Pecora XL-Perm \textsuperscript{ULTRA} VP Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT).
Inside / Outside Corners
Masonry
DWG# IOC-002

1. Fill all seams and static joints with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than ¼” will require a sealant backing. Sealant should be applied flush with exterior face of wall.
   a. Large voids should be filled flush with mortar and allowed to cure.
2. Apply a minimum ½” fillet bead of Pecora XL-Flash to all inside corners.
3. Apply 20 - 40 wet mils of Pecora XL-Flash and extend a minimum 2” over the inside/outside corner areas. Liquid flashing must be applied to both sides of the corner.
4. Apply the Pecora XL-Perm®ULTRA VP Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT).
Sheathing Penetrations
Mechanical & Pipe
DWG# PEN-001

Ensure all penetrations are firmly secured prior to installation of air & vapor barrier system.

1. Fill all seams and static joints with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than ¼” will require a sealant backing. Sealant should be applied flush with exterior face of wall.

2. Apply a minimum ½” bead of XL-Flash around penetration and onto adjacent sheathing.
   a. For larger gaps, apply spray foam around penetrations and shave excess foam flush with sheathing prior to sealing with Pecora XL-Flash. See DWG# PEN-002.

3. Apply the Pecora XL-Perm ULTRA VP Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT).
   a. Extend coating a minimum 2” onto penetration.
Sheathing Penetrations
Mechanical & Pipe
DWG# PEN-002

Exterior Sheathing

XL-Flash Liquid Flashing & Joint Filler
(Min. ½” Fillet Bead)

Fill Large Voids With Spray Foam
and Cut Flush With Sheathing

XL-Perm^{ULTRA VP}
(10-14 wet mils)
Masonry Penetrations
Mechanical & Pipe
DWG# PEN-003

Ensure all penetrations are firmly secured prior to installation of air & vapor barrier system.

1. Fill all seams and static joints with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than \( \frac{1}{4} \)” will require a sealant backing. Sealant should be applied flush with exterior face of wall.
   a. Large voids should be filled flush with mortar and allowed to cure.
2. Apply a minimum \( \frac{1}{2} \)” bead of XL-Flash around penetration and onto adjacent masonry substrate.
3. Apply the Pecora XL-Perm\textsuperscript{ULTRA} VP Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT).
1. Apply Pecora 890NST Silicone Sealant or approved equal and appropriate sealant backing in all expansion joints greater than \( \frac{1}{4} \)” wide. Sealant should be applied flush with exterior face of wall.
2. Apply 20 - 40 wet mils of Pecora XL Flash and extend a minimum 2” over each side of the joint.
   a. XL Flash Liquid Flashing may be applied immediately after installation of silicone based joint sealant.
3. Apply the Pecora XL-Perm\textsuperscript{ULTRA} VP Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT).
Expansion Joints
Liquid Joint Sealant

EXPANSION JOINT IN CMU WALL
DWG# EJT-002

Approved Pecora Sealant
Closed Cell Backer Rod

Brick Veneer
Cavity
Cavity Insulation
CMU Wall

XL-Perm\textsuperscript{ULTRA} VP
(10-14 wet mils)

890NST Silicone Sealant
Closed Cell Backer Rod

XL-Flash (20 - 40 wet mils)
Expansion Joints
Pecora XL-SPAN Preformed Silicone Transition Membrane

The following instructions will apply to expansion joints less than 1” wide. Consult Pecora Technical Services for joints greater than 1” wide.

1. Apply the Pecora XL-Perm\textsuperscript{ULTRA VP} Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT).
2. Apply $\frac{1}{2}”$ bead of Pecora AVB Silicone Sealant/Adhesive to both sides of expansion joint.
3. Cover the joint by installing a 4” wide strip of Pecora XL-SPAN Pre-formed Silicone Transition Membrane over freshly applied Pecora AVB Silicone Sealant/Adhesive.
   a. For vertical joints, always start at the bottom of assembly with all overlapped edges from the top towards the bottom to create a “shingle effect”.
4. Press the XL-SPAN onto the substrate using a roller. Apply even pressure to Pecora XL-SPAN to ensure intimate contact with Pecora AVB Silicone sealant/adhesive and building substrate.
5. Once joint is sealed, inspect sealant application for continuity by observation through translucent Pecora XL-SPAN membrane.

EXPANSION JOINT IN SHEATHING
DWG# EJT-003

- Approved Pecora Sealant
- Closed Cell Backer Rod
- XL-Perm\textsuperscript{ULTRA VP} (10-14 wet mils)
- Gypsum Sheathing
- XL-Span
- AVB Silicone
Expansion Joints
Pecora XL-SPAN Preformed Silicone Transition Membrane

EXPANSION JOINT IN CMU WALL
DWG# EJT-004

Approved Pecora Sealant
Closed Cell Backer Rod
Brick Veneer
Cavity
Cavity Insulation
CMU Wall
XL-Span
AVB Silicone
XL-Perm ULTRA VP
(10-14 wet mils)
Rough Window Openings
Head, Sill and Jamb

1. Fill all gaps and seams with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than ¼” will require a sealant backing. Sealant should be applied flush with surface of substrate.
2. Apply ½” bead of Pecora XL-Flash Liquid Flashing and Joint Filler in a “Z” pattern to exterior wall surface adjacent to the rough opening.
3. Spread the flashing using a flat trowel to create a monolithic flashing membrane. Extend flashing a minimum 2” beyond the rough opening on exterior side of wall surface. If voids are present, apply additional flashing as necessary.
4. Apply ½” bead of Pecora XL-Flash in a “Z” pattern to exposed framing located inside the rough opening.
5. Spread the Pecora XL-Flash using a flat trowel to create a monolithic flashing membrane. Completely cover the inside of rough opening. Be sure to extend the flashing out and over flashing previously applied to exterior wall surfaces to create a monolithic membrane. If voids are present, apply additional Pecora XL-Flash as necessary.
   a. Pecora XL-Flash is to be applied at 20 - 40 wet mils.
6. Apply the Pecora XL-PermULTRA VP Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT).
Rough Window Openings
Head Detail
DWG# RWO-001

XL-Perm^{ULTRA VP}
(10-14 wet mils)

XL-Flash (20 - 40 wet mils)

AVB Silicone Sealant
Rough Window Openings
Jamb Detail
DWG# RWO-002

XL-Flash (20 - 40 wet mils)
XL-Perm^{ULTRA} VP
(10-14 wet mils)

AVB Silicone Sealant

2"
Rough Window Openings
Sill Detail
DWG# RWO-003
1. Fill all gaps and seams with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than ¼” will require a sealant backing. Sealant should be applied flush with surface of substrate.

2. Apply the Pecora XL-Perm\textsuperscript{ULTRA} VP fluid applied coating as the window flashing in a single 30-40 wet mil coat via an approved airless sprayer or ½” nap roller. Extend the liquid flashing a minimum 2” beyond the rough window opening on the exterior side of the wall surface.

3. Apply the Pecora XL-Perm\textsuperscript{ULTRA} VP Air & Vapor Barrier coating to the field area with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT).

4. Embed window mounting flange in ½” bead of Pecora AVB Silicone Sealant and form sealant bridge from mounting flange to previously applied Pecora XL-Perm\textsuperscript{ULTRA} VP Air & Vapor Barrier coating. Refer to window manufacturer’s guidelines regarding mechanical fastener type and installation.
Foundations
Pecora XL-SPAN Pre-formed Silicone Transition Membrane

1. Fill all seams and static joints greater than ¼” with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than ¼” will require a sealant backing. Sealant should be applied flush with exterior face of wall.

2. Apply XL-Perm\textsuperscript{ULTRA} VP Air & Vapor Barrier Coating to building façade components per Pecora’s installation guidelines.
   a. Allow product to cure, these times will vary depending on temperature, substrate and humidity. At 70°F and 50% humidity Pecora XL-Perm\textsuperscript{ULTRA} VP should be dry to touch in one (1) hour.

3. Apply ½” bead of Pecora AVB Silicone Sealant/Adhesive to both sides of joint.

4. Cover the joint by installing a minimum 4” wide strip of Pecora XL-SPAN Pre-formed Silicone Transition Membrane over freshly applied Pecora AVB Silicone Sealant/Adhesive.

5. Press the XL-SPAN onto the substrate using a roller. Apply even pressure to Pecora XL-SPAN to ensure intimate contact with Pecora AVB Silicone sealant/adhesive and building substrate.

6. Once transition is sealed, inspect sealant application for continuity by observation through translucent Pecora XL-SPAN membrane.
Foundations
Pecora XL-SPAN Pre-formed Silicone Transition Membrane
DWG# FND-001

XL-Perm\textsuperscript{ULTRA} VP
(10-14 wet mils)

Approved Pecora Sealant

AVB Silicone

XL-Span

Cavity Insulation

Cavity Grout Solid

Metal Drip Edge

Grade

\frac{3}{4}” Cant Bead

Foundation

Slab

Below Grade Insulation

Below Grade Liquid Applied Waterproofing
Foundations
Self-Adhered Membrane

1. Fill all seams and static joints greater than ¼” with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than ¼” will require a sealant backing. Sealant should be applied flush with exterior face of wall.

2. Cover the joint by installing a minimum 4” wide strip of approved self-adhered membrane over exterior sheathing and existing below grade waterproofing membrane.
   a. Follow self-adhered membrane manufacturer’s installation instructions. A contact adhesive will typically be required for use prior to the membrane installation.

3. Seal self-adhered membrane terminations with the Pecora AVB Silicone Sealant or XL Flash Liquid Flashing and Joint Filler.

4. Apply the Pecora XL-Perm$^\text{ULTRA}$ VP Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT). Overlap XL-Perm$^\text{ULTRA}$ VP Air & Vapor Barrier Coating a minimum 2” over the installed self-adhered membrane.
   a. Allow product to cure, these times will vary depending on temperature, substrate and humidity. At 70°F and 50% humidity Pecora XL-Perm$^\text{ULTRA}$ VP should be dry to touch in one (1) hour.
Foundations
Self-Adhered Membrane
DWG# FND-002

- XL-Perm ULTRA VP (10-14 wet mils)
- Approved Pecora Sealant
- AVB Silicone
- Approved Self-Adhered Membrane by Others
- Cavity Insulation
- Cavity Grout Solid
- Metal Drip Edge
- Grade
- ¾" Cant Bead
- Foundation
- Below Grade Liquid Applied Waterproofing
Parapets

Pecora XL-Flash Liquid Flashing

1. Fill all seams and static joints greater than ¼” with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than ¼” will require a sealant backing. Sealant should be applied flush with exterior face of wall.

2. Apply ½” bead of Pecora XL-Flash in a “Z” pattern to top of parapet.

3. Spread the Pecora XL-Flash using a flat trowel to create a monolithic flashing membrane. Completely cover top of parapet. Be sure to extend the flashing 2” out and over both the interior and exterior face of parapet.
   a. Flashing will be applied over installed roofing membrane and exterior wall substrate.
   b. Pecora XL-Flash is to be applied at 20 - 40 wet mils. If voids are present, apply additional Pecora XL-Flash as necessary.

4. Apply the Pecora XL-Perm<sup>ULTRA</sup> VP Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT). Terminate coating at top of wall.
   a. Allow product to cure, these times will vary depending on temperature, substrate and humidity. At 70°F and 50% humidity Pecora XL-Perm<sup>ULTRA</sup> VP should be dry to touch in one (1) hour.
Parapets
Self-Adhered Membrane

1. Fill all seams and static joints greater than ¼” with the XL-Flash Liquid Flashing and Joint Filler. Joints greater than ¼” will require a sealant backing. Sealant should be applied flush with exterior face of wall.
2. Cover the top of wall by installing an approved self-adhered membrane over the coated wall substrate and roofing membrane.
   a. Self-Adhered membrane sizing requirements will vary depending on the wall dimensions. Self-adhered membrane should extend a minimum 2” onto face of wall substrate.
   b. Follow self-adhered membrane manufacturer’s installation instructions. A contact adhesive will typically be required for use prior to the membrane installation.
3. Seal self-adhered membrane terminations with the Pecora AVB Silicone Sealant or XL Flash Liquid Flashing and Joint Filler.
4. Apply the Pecora XL-Perm<sup>ULTRA</sup> VP Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT). Overlap XL-Perm<sup>ULTRA</sup> VP Air & Vapor Barrier coating a minimum 2” over installed self-adhered membrane.
   a. Allow product to cure, these times will vary depending on temperature, substrate and humidity. At 70°F and 50% humidity Pecora XL-Perm<sup>ULTRA</sup> VP should be dry to touch in one (1) hour.
Parapets
Self-Adhered Membrane
DWG# PPT-002

Approved Self-Adhered Membrane by Others

Roofing Membrane by Others

AVB Silicone

XL-Perm ULTRA VP
(10-14 wet mils)
Brick Ties
Sheathing & Masonry

1. Apply the Pecora XL-Perm\textsuperscript{ULTRA VP} Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT). Allow product to cure and dry prior to brick tie installation.
   a. Cure times will vary depending on temperature, substrate and humidity. At 70°F and 50% humidity Pecora XL-Perm\textsuperscript{ULTRA VP} should be dry to touch in one (1) hour.
2. Prior to installing brick tie, apply ¾” dollop of XL-Flash Liquid Flashing & Joint Filler over area to receive brick tie.
3. Brick ties shall be installed per the manufacturer’s instructions.
   a. Any holes resulting from improperly installed & removed fasteners must be filled with Pecora XL-Flash Liquid Flashing & Joint Filler.
   b. Voids around brick ties in CMU must be filled with Pecora XL-Flash Liquid Flashing & Joint Filler.

BRICK TIE IN SHEATHING – DWG# BRT-001
Brick Ties
Sheathing & Masonry

BRICK TIE IN CMU – DWG# BRT-002

XL-Perm^{ULTRA VP} (10-14 wet mils)
XL-Flash
Static Transitions
(Non-Moving)
DWG# TRA-001

The following installation procedure is for Static (non-moving) transitions only. Refer to “Dynamic Transitions” section for installation guidelines over transitions with significant movement.

1. Fill gap between adjoining substrates with Pecora XL-Flash Liquid Flashing and Joint Filler.
   a. Joints ¼” or greater will require the use of a sealant backing prior to installation of XL-Flash.
2. Apply ½” beads of Pecora XL-Flash Liquid Flashing and Joint Filler to both adjoining surfaces.
3. Spread the flashing a minimum 2 inches across the newly sealed transition using a flat trowel to create a monolithic flashing membrane. If voids are present, apply additional flashing as necessary.
   a. Pecora XL-Flash is to be applied at 20 - 40 wet mils.
4. Apply the Pecora XL-Perm<sup>ULTRA</sup> VP Air & Vapor Barrier coating with a roller or airless sprayer in one coat at 10 - 14 wet mils (8 - 12 DFT).
Dynamic Transitions (Moving)

Window to building façade, roof to wall and other transitions with dynamic movement will require the use of the Pecora XL-SPAN Pre-formed Silicone Transition Membrane.

1. Apply XL-Perm$^{ULTRA}$ VP Air & Vapor Barrier Coating to building façade components per Pecora’s installation guidelines.
   a. Allow product to cure, these times will vary depending on temperature, substrate and humidity. At 70°F and 50% humidity Pecora XL-Perm$^{ULTRA}$ VP should be dry to touch in one (1) hour.

2. Apply ½” bead of Pecora AVB Silicone adhesive/sealant along substrate edges to form a continuous seal between Pecora XL-SPAN and building façade adjacent assemblies.
   a. Pecora AVB Silicone sealant/adhesive does not require priming on most common air vapor barrier components. Consult Pecora TB-166 and TB 189 for specific recommendations on surface preparation of pre-approved air barrier components.

3. Press the XL-SPAN onto the substrate using a roller. Apply even pressure to Pecora XL-SPAN to ensure intimate contact with Pecora AVB Silicone sealant/adhesive and building substrate.
   a. Utilize the “Shingle Effect”. Always start at the bottom of assembly with all overlapped edges from the top towards the bottom.
   b. Ensure a minimum 1” overlap of XL-SPAN onto substrates and a minimum bellows depth equivalent to 25% of the joint width.

4. Once transition is sealed, inspect sealant application for continuity by observation through translucent Pecora XL-SPAN membrane.
Flexible Flashing Terminations

1. Apply XL-Perm\textsuperscript{ULTRA} VP Air & Vapor Barrier Coating to building façade components per Pecora’s installation guidelines.
   a. Allow product to cure, these times will vary depending on temperature, substrate and humidity. At 70°F and 50% humidity Pecora XL-Perm\textsuperscript{ULTRA} VP should be dry to touch in one (1) hour.
2. Install flexible flashing membrane and primer, if required, over cured XL-Perm\textsuperscript{ULTRA} VP Air & Vapor Barrier Coating per manufacturer’s installation instructions.
3. Install termination bar and fasteners per manufacturer’s installation instructions requirements.
4. **Detail #1**: Apply bead of Pecora AVB Silicone adhesive/sealant along top edge of termination bar lapping the sealant a $\frac{1}{4}''$ onto face of termination bar to form a continuous seal.
   **Detail #2**: Apply a minimum $\frac{1}{4}''$ deep bead of Pecora AVB Silicone adhesive/sealant to fill channel created by termination bar flange to form a continuous seal. Tool sealant flush or convex in order to avoid creating a reservoir in the event of water/moisture infiltration.
   a. Pecora AVB Silicone sealant/adhesive does not require priming on most common air vapor barrier coatings & accessories. Consult Pecora TB-166 and TB 189 for specific recommendations on surface preparation of pre-approved air barrier components.
Flexible Flashing Termination – Option 1
DWG# FFT-001

XL-Perm Ultra VP - Apply at 10-14 wet mils
AVB Silicone Sealant (buttered over termination bar)
Termination bar & fasteners (by others)
Primer & flexible flashing (by others)
Lap per flashing mfr's instructions

Flexible Flashing Termination – Option 2
DWG# FFT-002

XL-Perm Ultra VP - Apply at 10-14 wet mils
AVB Silicone Sealant
Termination bar & fasteners (by others)
Primer & flexible flashing (by others)
Lap per flashing mfr's instructions
Product Compatibility
Pecora XL-Perm
Air, Vapor & Water Resistive Barrier System
Approved Air & Vapor Barrier Accessory Products

Joint Sealants/Fillers
For use under XL-Perm\textsuperscript{ULTRA} VP coating:
- Static Joints
  - Pecora XL-Flash Liquid Flashing & Joint Filler
  - Pecora Dynatrol I-XL HYBRID
  - Others as approved by Pecora
- Dynamic Joints
  - Pecora NST Silicones (864NST, 890NST, 895NST, 890FTS)
  - Pecora Dynatrol I-XL HYBRID
  - Pecora AVB Silicone & Adhesive
  - Others as approved by Pecora

For use over XL-Perm\textsuperscript{ULTRA} VP coating:
- Pecora AVB (Air & Vapor Barrier) Silicone
- Pecora NST Silicones (864NST, 890NST, 895NST, 890FTS)
- Pecora XL-Flash Liquid Flashing & Joint Filler
- Pecora Dynatrol I-XL HYBRID
- Others as approved by Pecora

Flashings
Liquid-Applied (For use over/under XL-Perm\textsuperscript{ULTRA} VP coating)
- Pecora XL-Flash Liquid Flashing and Joint Filler
- Others as approved by Pecora

Self-Adhered Membranes\textsuperscript{1} (For use UNDER XL-Perm\textsuperscript{ULTRA} VP coating)
- Carlisle CCW-705
- Grace Perm-A-Barrier Wall Membrane
- Henry Blueskin SA
- DuPont Flashing System
- Others as approved by Pecora

\textsuperscript{1}A manufacturer recommended contact adhesive or Pecora P-225 primer may be required to achieve adequate membrane adhesion to installed XL-Perm\textsuperscript{ULTRA} VP coating. Contact Pecora Technical Service for specific recommendations.
Self-Adhered Membranes (For use **OVER** XL-Perm\textsuperscript{ULTRA} VP coating)

- Product compatibility testing was performed in accordance with AAMA 713-08 *Test Method to Determine Chemical Compatibility of Sealants and Self-Adhered Flexible Flashings*.
- As a result of the testing, it has been determined that the XL-Perm\textsuperscript{ULTRA} VP and XL-Flash products require a minimum product cure time prior to the application of the self-adhered membranes. Minimum cure times vary based on the membrane adhesive type.

The following guidelines should be followed when applying self-adhered membranes over XL-Perm\textsuperscript{ULTRA} VP and XL-Flash:

**SELF-ADHERED MEMBRANE WITH BUTYL AND ACRYLIC BASED ADHESIVES**

- Self-adhered membranes utilizing a butyl or acrylic based adhesive are acceptable for use over the XL-Perm\textsuperscript{ULTRA} VP and XL-Flash following the standard product cure time of 48hrs @ 75°F/50%rh.

**SELF-ADHERED MEMBRANE WITH ASPHALTIC BASED ADHESIVES**

- Self-adhered membranes utilizing an asphaltic adhesive are acceptable for use over the XL-Perm\textsuperscript{ULTRA} VP and XL-Flash following a minimum product cure time of 7 days @ 75°F/50%rh.
Approved Building Components

Pecora XL-Perm$^{ULTRA}$ VP Air & Vapor Barrier Coating may be applied over the following:

- Concrete Masonry Unit (CMU)
- Precast Concrete
- “Green” and Damp Concrete
- Exterior Gypsum Sheathing
- OSB
- Plywood
- Wood
- Metal
- Others as approved by Pecora$^2$

Pecora XL-Flash Liquid Flashing & Joint Filler$^3$ may be applied over the following:

- Concrete Masonry Unit (CMU)
- Precast Concrete
- “Green” and Damp Concrete
- Exterior Gypsum Sheathing
- OSB
- Plywood
- Wood
- Metal
- Others as approved by Pecora$^2$

NOTES: Pecora XL-Perm$^{ULTRA}$ VP and XL-Flash STPU based products should not be applied in areas adjacent to uncured polyurethane based products. XL-Perm$^{ULTRA}$ VP may be applied immediately after installation of XL-Flash Liquid Flashing and Joint Filler and/or silicone based joint sealant such as the Pecora 890NST Silicone Joint Sealant.

$^2$ Pecora routinely performs adhesion and compatibility testing in order to determine suitability of underlying substrates and building components. Contact Pecora Technical Service with any questions regarding unlisted substrates.

$^3$ Sealant primer may be required when using the Pecora XL-Flash as a joint filler. Priming is not generally required on the afore-mentioned substrates. Consult Pecora Technical Services for priming requirements.
Approved Building Components (cont.)

Pecora **AVB Silicone Sealant & Adhesive** may be applied over the following:

<table>
<thead>
<tr>
<th>Flashings &amp; Self-Adhered Air &amp; Vapor Barriers</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M 3015 Air &amp; Vapor Barrier</td>
</tr>
<tr>
<td>BASF Enershield-TWF (Thru Wall Flashing)</td>
</tr>
<tr>
<td>Carlisle CCW 705 Self-Adhering Vapor Barrier</td>
</tr>
<tr>
<td>Carlisle CCW-711 Membrane &amp; Flashing (70 &amp; 90 mil)</td>
</tr>
<tr>
<td>Carlisle CCW MiraDRI 860/861</td>
</tr>
<tr>
<td>CETCO Envirosheet</td>
</tr>
<tr>
<td>CETCO GF-40</td>
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<tr>
<td>Copper Sealtite 2000</td>
</tr>
<tr>
<td>Dow Weathermate Straight Flashing</td>
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<tr>
<td>DuPont Flashing System</td>
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<td>DuPont StraightFlash</td>
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<td>First-Wrap Moisture Barrier</td>
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<td>Fortifiber FortiFlash Flashing Membrane</td>
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<tr>
<td>Grace Ice &amp; Water Shield HT Membrane</td>
</tr>
<tr>
<td>Grace Perm-A-Barrier Wall Membrane</td>
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<tr>
<td>Grace Perm-A-Barrier Detail Membrane</td>
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<tr>
<td>Grace Perm-A-Barrier Wall Flashing</td>
</tr>
<tr>
<td>Grace Perm-A-Barrier Aluminum Flashing</td>
</tr>
<tr>
<td>Grace VPS (Vapor Permeable Sheet)</td>
</tr>
<tr>
<td>Grace Vycor V-40</td>
</tr>
<tr>
<td>Grace Vycor Plus &amp; Pro</td>
</tr>
<tr>
<td>Grace Ultra Self Adhered Roofing Underlayment</td>
</tr>
<tr>
<td>HardieWrap Flex Flash</td>
</tr>
<tr>
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</tr>
<tr>
<td>H&amp;B Copper-Flex Copper Fabric Flashing</td>
</tr>
<tr>
<td>H&amp;B Copper SA Thru Wall Flashing</td>
</tr>
<tr>
<td>H&amp;B Flex-Flash Flashing</td>
</tr>
<tr>
<td>H&amp;B Mighty Flash Stainless Steel Fabric Flashing</td>
</tr>
<tr>
<td>H&amp;B Plain Stainless Steel Flashing</td>
</tr>
<tr>
<td>H&amp;B TextraFlash Thru Wall Flashing</td>
</tr>
<tr>
<td>H&amp;B X-Seal Air &amp; Vapor Barrier</td>
</tr>
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<td>Henry Air-Bloc LF</td>
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<tr>
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<tr>
<td>Henry Blueskin VP 100</td>
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<td>Henry BlueskinVP 160</td>
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<td>Henry Air-Bloc LF</td>
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<td>Henry TWF (Thru Wall Flashing)</td>
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<tr>
<td>Hyload Surface Adhered Flashing Membrane (w/ DRIP)</td>
</tr>
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</table>
Approved Building Components (cont.)

Pecora **AVB Silicone Sealant & Adhesive** may be applied over the following:

<table>
<thead>
<tr>
<th>Flashings &amp; Self-Adhered Air &amp; Vapor Barriers (cont.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hyload Jamb Enclosure Flashing Membrane</td>
</tr>
<tr>
<td>Novaflash SA (by IPG)</td>
</tr>
<tr>
<td>Pecora XL-Flash Liquid Flashing &amp; Joint Filler</td>
</tr>
<tr>
<td>Polyguard 400 Thru-Wall Flashing</td>
</tr>
<tr>
<td>Polyguard 650 Waterproofing Membrane</td>
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<td>Protecto Wrap BT25XL</td>
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<td>Tremco ExoAir 220 Fluid Applied Membrane</td>
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<td>WR Meadows AirShield TWF</td>
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<td>WR Meadows Mel-Rol Waterproofing Air Barrier</td>
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<tr>
<td>XtraFlash Plus Flashing</td>
</tr>
<tr>
<td>Zip System Flashing Tape</td>
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</table>

<table>
<thead>
<tr>
<th>Liquid Applied Air &amp; Vapor Barriers</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASF Acrostop R Vapor Permeable Membrane</td>
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<tr>
<td>BASF Enershield-HP Spray</td>
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<tr>
<td>BASF Senershield-R</td>
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<tr>
<td>BASF Sonoshield HLM 5000</td>
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<tr>
<td>Carlisle Barriseal</td>
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<tr>
<td>Carlisle Barritech NP</td>
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<tr>
<td>Carlisle Barritech VP</td>
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<tr>
<td>Dow DefendAir 200 Air &amp; Weather Barrier</td>
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<tr>
<td>DuPont Tyvek Fluid Applied Air Barrier</td>
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<tr>
<td>Grace Perm-A-Barrier Liquid</td>
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<tr>
<td>Grace Perm-A-Barrier VP</td>
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<tr>
<td>Henry Air-Bloc 07 Vapor Permeable Air Barrier Membrane</td>
</tr>
<tr>
<td>Henry Air-Bloc 31MR Air &amp; Vapor Barrier Membrane</td>
</tr>
<tr>
<td>Henry Air-Bloc 32MR Air &amp; Vapor Barrier Membrane</td>
</tr>
<tr>
<td>Henry Air-Bloc 33MR UV Resistant Air &amp; Weather Barrier</td>
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<tr>
<td>Parex WeatherSeal Spray &amp; Roll-On Membrane</td>
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<tr>
<td>Pecora XL-Perm Ultra VP Air &amp; Vapor Barrier Membrane</td>
</tr>
<tr>
<td>Prosoco R-Guard Cat 5 Air &amp; Water Resistive Barrier</td>
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<tr>
<td>Prosoco R-Guard Fast Flash (PM7000)</td>
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<tr>
<td>Prosoco R-Guard MVP Air &amp; Water Resistive Barrier</td>
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<tr>
<td>Prosoco R-Guard VB Air &amp; Water Vapor Barrier</td>
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<tr>
<td>Rub-R-Wall Airtight Air &amp; Vapor Barrier Membrane</td>
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<tr>
<td>Sto AirSeal</td>
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<tr>
<td>Sto Gold Coat</td>
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<tr>
<td>Sto Emerald Coat</td>
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</tbody>
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Pecora AVB Silicone Sealant & Adhesive may be applied over the following:

<table>
<thead>
<tr>
<th>Approved Building Components (cont.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pecora AVB Silicone Sealant &amp; Adhesive may be applied over the following:</td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Liquid Applied Air &amp; Vapor Barriers (cont.)</strong></td>
</tr>
<tr>
<td>Tremco ExoAir 120 SP/R (Spray/Roller Grade)</td>
</tr>
<tr>
<td>W.R. Meadows Air-Shield LM</td>
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<tr>
<td>W.R. Meadows Air-Shield LMP</td>
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<tr>
<td>W.R. Meadows Air-Shield LSR</td>
</tr>
<tr>
<td><strong>Air &amp; Vapor Barrier Building Wraps</strong></td>
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<tr>
<td>Barricade Plus Building Wrap</td>
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<tr>
<td>Delta Fasssade S UV-Resistive Barrier</td>
</tr>
<tr>
<td>DuPont Tyvek Commercial &amp; Home Wrap</td>
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<tr>
<td>GreenGuard MAX Building Wrap</td>
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<tr>
<td>Hardie Wrap Weather Barrier</td>
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<tr>
<td>Typar MetroWrap Building Wrap</td>
</tr>
<tr>
<td>VaproShield RevealShield Air Barrier Membrane</td>
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<tr>
<td><strong>Architectural Coatings</strong></td>
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<tr>
<td>Pecora WeatherClad</td>
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<tr>
<td>StoCoat Lotusan</td>
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<tr>
<td>StoSilco Lastic</td>
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<tr>
<td><strong>Accessories</strong></td>
</tr>
<tr>
<td>3M 8067 All Weather Flashing Tape</td>
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<tr>
<td>Dupont Tyvek Tape</td>
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<tr>
<td>Henry 925 BES Sealant</td>
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<tr>
<td>Hohmann &amp; Barnard X-SEAL Tape</td>
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<tr>
<td>Hyload Structural Roofing Sealant&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
<tr>
<td>Pecora XL-Span Silicone Transition Membrane</td>
</tr>
<tr>
<td>Prosoco R-Guard Joint &amp; Seam Filler (FR7200)</td>
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<tr>
<td>Protecto Wrap Detail Tapes</td>
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<tr>
<td>Protecto Wrap SafSeal Tapes</td>
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<tr>
<td>StoGuard Tape</td>
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<tr>
<td>VaproShield VaproAluma Tape</td>
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<tr>
<td><strong>Other</strong></td>
</tr>
<tr>
<td>Glass</td>
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<tr>
<td>Stainless Steel</td>
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<tr>
<td>Mill Finish Aluminum</td>
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<tr>
<td>Anodized Aluminum</td>
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<tr>
<td>Painted Metal (Kynar, Duranar, Fluorpon, Duracron, etc)</td>
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<tr>
<td>Copper</td>
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<tr>
<td>Vinyl</td>
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<tr>
<td>Wood (Bare and Stained)</td>
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<tr>
<td>Pecora Silspan Preformed Silicone Profiles</td>
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<tr>
<td>Georgia-Pacific DensGlass Sheathing</td>
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<tr>
<td>National Gypsum Gold Bond e²XP Sheathing</td>
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<tr>
<td>USG Securock Glass-Mat Sheathing</td>
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</tbody>
</table>

<sup>1</sup>The results reported here are not considered a substitute for project specific field or laboratory adhesion testing. Project specific adhesion testing is always recommended.

<sup>2</sup>Application to polyethylene side only (where applicable). Contact with asphaltic side of peel and stick may result in discoloration and loss of adhesion. 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. If this is not possible prior to sealant application a field adhesion test may be conducted as outlined in Pecora’s Technical Bulletin #55.

<sup>4</sup>For use in static joints only

<sup>4</sup>Sealant must be fully cured prior to application of Pecora AVB sealant.