



# AU-1 Liquid-Applied Flashing

## Elastomeric Flashing and Detailing Membrane

### Product Description:

**AU-1 Liquid Applied Flashing** is a high performance, single component, Styrene Butadiene Resin (SBR) elastomeric liquid flashing membrane. This low-odor, waterproofing barrier can be brushed, rolled, troweled or sprayed, and requires no primer. It is formulated to provide a permanent, breathable waterproof seal with excellent adhesion to most common substrates, including green concrete. It is low VOC, easy to apply, and is easy to clean with soap & water. AU-1 Liquid Applied Flashing can be used on rough openings, around penetrations and on broad wall applications as a water vapor barrier.

### Performance Features:

- Meets the performance requirements of AAMA 714-22 & 714-19
- Provides a breathable, waterproof seal
- No isocyanates or phthalates
- Weather resistant
- Soap & water cleanup
- Outstanding adhesion
- Paintable
- Can be applied to green concrete
- Apply by brush, roller, trowel or spray
- Compatible with stucco without primer\*
- 18-month shelf life

### Suggested Substrates:

Masonry      Aluminum      Wood  
Concrete      Brick      Vinyl  
Exterior Gypsum      Building Envelope Systems

### Surface Preparation:

Surfaces to be free of all dirt, dust, oil, mildew, frost or other contaminants. Any structural damage must be repaired prior to application. Any non-structural cracks or joints up to 1/2" should be sealed with **AU-1 Elastomeric Construction Sealant** prior to Liquid-Applied Flashing Application. Protect property and surface not to be applied with membrane.

### Product Specifications

|                                |  |
|--------------------------------|--|
| <b>Vehicle:</b>                | 100% Styrene Butadiene Resin   |
| <b>VOC:</b>                    | Non-chemically curing membrane. VOC (less water and exempt compounds) <50 g/L (SCAQMD) |
| <b>Pigment:</b>                | Calcium Carbonate  |
| <b>Weights Solids:</b>         | Approximately 66.42%   |
| <b>Volume Solids:</b>          | Approximately 53.0%  |
| <b>Weight per Gallon:</b>      | 11.11 ± 0.5  |
| <b>Specific Gravity:</b>       | Approximately 1.33   |
| <b>Service Temp:</b>           | -30°F to 180°F   |
| <b>Temp Application Range:</b> | 40°F and rising and substrate not hotter than 160°F                                    |
| <b>Freeze Thaw Stability:</b>  | Passes 5 Cycles @ 0°F (1 cycle = 16hrs. @ 0°F, 8hrs at 75°F)                           |
| <b>Flash Point:</b>            | N. A.  |
| <b>Consistency:</b>            | Paste / brush-able   |
| <b>Applications:</b>           | Interior / Exterior  |
| <b>Life Expectancy:</b>        | 60-year performance  |
| <b>Shelf Life:</b>             | 18 months when stored at 50°F to 80°F  |
| <b>Odor:</b>                   | Mild Acrylic   |
| <b>Tooling Time:</b>           | 10 to 20 Minutes   |
| <b>Tack Free Time:</b>         | 60 Minutes   |
| <b>Paint Over Time:</b>        | 6 to 8 hours   |
| <b>Full Cure:</b>              | 24 to 72 hours   |
| <b>Coverage 30 mil wet:</b>    | 53.46 sq ft per gallon   |

|                     |                 |
|---------------------|-----------------|
| <b>Packaging:</b>   | 1 US Gallon     |
| <b>Color:</b>       | Blue            |
| <b>Item Number:</b> | <b>TS-00461</b> |
| <b>UPC Code:</b>    | 843034004619    |

|                     |                 |
|---------------------|-----------------|
| <b>Packaging:</b>   | 5 US Gallon     |
| <b>Color:</b>       | Blue            |
| <b>Item Number:</b> | <b>TS-00462</b> |
| <b>UPC Code:</b>    | 843034004626    |

# AU-1 Liquid-Applied Flashing– (cont.)

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## Mixing:

Do not induce air if product needs to be mixed. Do not dilute product by adding water.

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## Application:

Use a brush, roller, trowel or spray apply **AU-1 Liquid-Applied Flashing** to a minimum of 30 wet mils over the desired area of the rough opening including the exterior surface. Application should be done in a manner resulting in the membrane surface being free of openings or pinholes. AU-1 LAF may be applied up to 60 wet mils without sagging if required due to substrate porosity. Allow product to skin before installing any components into rough openings. Skin times may vary by humidity and conditions. Check local building codes for additional recommendations or requirements.

NOT INTENDED FOR AREAS THAT WILL BE SUBMERGED IN WATER. KEEP FROM FREEZING. NOT FOR FOOD CONTACT SURFACES. PRODUCT CANNOT BE SANDED.

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## Clean Up:

Immediately after use, clean uncured material and tools with soap and water. Remove cured membrane by cutting with a sharp-edged tool.

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## Limitations:

Only apply AU-1 Liquid-Applied Flashing when product, surface, and air temperatures are above 40° F and rising. Do not apply on surfaces exceeding 160° F. Do not apply to frozen substrates, prior to extreme weather, or before heavy rain. AU-1 Liquid-Applied Flashing is not for use in below-grade applications, or in areas where frequent water ponding may occur. Product is not to be used as a structural sealant. Product is not intended for use on surfaces where it will be permanently exposed. AU-1 Liquid Applied Flashing should be covered or top coated within 180 days of application.

\*AU-1 Liquid-Applied Flashing is chemically compatible with stucco, however, always refer to the stucco manufacturer's TDS as an adhesion promoter may be required. A pre-construction mockup is recommended.

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## Storage:

AU-1 Liquid-Applied Flashing should be stored in original, unopened containers, away from heat and direct sunlight. Product should be kept from freezing. When stored correctly, product will have a shelf life of 18 months.

# AU-1 Liquid-Applied Flashing– (cont.)

## CERTIFICATION & TESTING

| <b>AAMA 714-22: Voluntary Specification for Liquid-Applied Flashing used to Create a Water Resistive Seal Around Exterior Wall Openings in Buildings</b>                                     |  |  |   |
|--|--|--|---|
| <b>Property</b>  | <b>Test method</b>   | <b>Minimum Requirement</b>   | <b>Result</b>   |
| <b>Section 5.1<br/>Adhesive Bond to Substrates.<br/>Substrates as listed</b>   | ASTM C-794 180 degree peel angle.<br>At 2"per minute.  | 5 pli  | <b>PASS<br/>Cement &amp; Plywood</b>                        |
| <b>Section 5.2<br/>Water Penetration Around<br/>Fasteners After 24 Hours @ 23'C +-<br/>2'F &amp; 50 % RH After thermal<br/>Cycling (10 cycles)</b>   | AAMA 711 section 5.2 50'C<br>for 8 hour then -330'C for 16 hours<br>(10 cycles)  | Pass 31 MM (1/2") water  | <b>PASS</b>   |
| <b>Section 5.3<br/>Accelerated UV aging (14 Days )<br/>Peel Adhesion</b>   | ASTM G154 Cycle 1 or G155<br>ASTM C-794 180 degree peel angle.<br>At 2"per minute.                                     | 5 pli<br>Note any significant physical<br>change   | <b>PASS (Cement)</b>  |
| <b>Section 5.4<br/>Elevated Temperature Exposure<br/>Level 1: 50'C for 7 days<br/>Level 2: 65'C for 7 days<br/>Level 3: 80'C for 7 days<br/>Peel adhesion After exposure<br/>Appearance:</b> | ASTM C-794 180 degree peel angle.<br>At 2"per minute. AAMA<br>711, Section 5.5<br>Appearance is a visual examination   | 5 pli<br>Note any significant physical<br>change   | <b>PASS (Cement &amp;<br/>Plywood)<br/>Slight yellowing</b> |
| <b>Section 5.5<br/>Thermal Cycling per AAMA 711<br/>Peel Adhesion after cycling<br/>Appearance</b>   | AAMA 711, section 5.6.3 ASTM<br>C-794 180 degree peel angle. At<br>2"per minute.<br>Appearance is a visual examination | 5 pli<br>Note any significant physical<br>change   | <b>PASS (Cement)<br/>Slight yellowing</b>                   |
| <b>Section 5.6<br/>Crack Bridging Ability</b>  | ASTM C1305 modified as in section<br>5.6 of AAMA 714-19<br>Category 1 3.2mm<br>Category 2 1.6mm                        | Water holdout of 550<br>millimeters for 24 hours with<br>3.2 mm or 1.6 mm crack after<br>10 cycles | <b>PASS Category 1 &amp; 2</b>                              |
| <b>Section 5.7<br/>Water Immersion<br/>Peel Adhesion<br/>Appearance</b>  | AAMA 711 section5.8<br>Appearance is a visual examination  | 5 pli<br>Note any significant physical<br>change   | <b>PASS (cement)<br/>Slight yellowing</b>                   |
| <b>Section 6.3 Water Vapor<br/>Permeability</b>  | ASTM E-96  | Minimum of 5 perms at 30 dry<br>mils (post cure). (And 10<br>perms from AAMA 714-19)               | <b>PASS<br/>13</b>  |

# AU-1 Liquid-Applied Flashing– (cont.)

## Additional Testing

| Property                     | Value   |
|------------------------------|---------|
| Tensile Stress at max Load   | 100 psi |
| Tensile Strain at break      | 151%    |
| Toughness                    | 29 psi  |
| Water Absorption % ASTM D471 | 17%     |
| MVTR                         | -100.8  |
| ASTM D4400-18 sag (mils)     | 60      |

**WARNING!** IRRITATING TO SKIN, EYES AND RESPIRATORY TRACT. Harmful if swallowed, inhaled or absorbed through the skin. May cause allergic skin reactions and/or central nervous system depression. Adverse reproduction effects have been reported in animals. May cause adverse kidney effects. Avoid contact with eyes, skin and clothing. Use in well ventilated area. Wear eye, skin, and respiratory protection. Eye contact: Immediately flush with water for 15 minutes and get medical attention immediately. If swallowed: Do not induce vomiting. Give large quantities of water and get medical attention. Never give anything by mouth to an unconscious person. For health information, refer to Material Safety Data Sheet or call Chemtrec at 800-424-9300. **KEEP OUT OF REACH OF CHILDREN.**

**⚠WARNING!** Cancer and Reproductive Harm – Go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov) for additional information

Material Safety Data Sheets (SDS) available upon request via [towersealants.com](http://towersealants.com) or by calling 866-897-7568

**Warranty:** TOWER Sealants warrants this product to be free from manufacturing defects. The installer is responsible for the testing of this product on the surfaces of the targeted application for compatibility and performance prior to use. This is the sole and exclusive remedy and liability for defects or failure of this product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESSED OR IMPLIED; INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS.