

ALT MATRIX R295 Liquid-Applied Flashing Specification



Technical Data Sheet

PART 1 GENERAL

System:	New cold liquid-applied integrally reinforced flashing membrane with integral colored finish used to seal all roofing and waterproofing conditions including but not limited to drain, pipe, perimeter, penetration flashings as specified.
Weather Restrictions:	Do not apply membrane during or with the threat of inclement weather. Application of cold liquid-applied reinforced membrane may proceed while air temperature is between 32° F (0° C) and 95° F (35° C) for ALT primers and finish or 23° F (-5° C) and 95° F (35° C) for ALT Matrix R295 membrane, providing the substrate is a minimum of 5 degrees above the dew point temperature, clean and dry.
Warranty:	Manufacturer's Warranty: Provide manufacturer's standard flashing warranty under provisions of this section.

PART 2 PRODUCTS

Membrane:	Cold liquid-applied membrane with integral reinforcing fibers, for a finished dry film membrane thickness of .080 inch nominal per ply; integral color finish as selected by owner from manufacturer's standard palette of colors; conforming to ASTM C 836. Subject to compliance with requirements, provide ALT Matrix R295 membrane system by ALT Global, LLC.
Accessories:	Proprietary resin primers, additives, surfacing topcoats, and accessory products as required or recommended by the Membrane Manufacturer.

PART 3 EXECUTION

Preparation:	<p>General: All substrates must be free from gross irregularities, loose, unsound or foreign material such as dirt, ice, snow, water, grease, oil, release agents, lacquers, or any other condition that would be detrimental to adhesion of the primer and/or resin to the substrate with a maximum moisture content of six (6) percent or 75% relative humidity.</p> <p>Substrates shall be abrasively cleaned or ground as required to provide a sound open abraded surface to provide adhesion of the membrane to substrate with a minimum bond strength of 116 psi (0.8 N/mm²) for roofing applications or 219 psi (1.5 N/mm²) for traffic deck applications. Determinations of bond strength and moisture content shall be performed periodically by the Contractor throughout the course of work.</p> <p>Existing Built-Up Roofing (BUR): Strip and remove all existing roof membrane/metal roof perimeter, base, curb, pipe, drain and penetration flashings. Prepare flashings substrate as required for application of new cold liquid-applied membrane. For BUR flashings to remain, a minimum 4 inch (10 cm) band at all vertical termination points shall be cut, removed and abrasively cleaned in accordance with the general requirements above.</p>
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<p>Preparation: (continued)</p>	<p>Smooth BUR or Granulated Surface Modified Bitumen Membrane: All felts or plies comprising the roof membrane shall be installed before the cold liquid-applied reinforced unsaturated polyester membrane flashing is applied. The roofing membrane should tightly butt the vertical protrusion, but not extend up vertically to act as a base flashing. When required by the BUR roof membrane manufacturer, the roof membrane may be extended onto an acceptable properly anchored cant strip. All loose granules, dust and dirt shall be removed from the surface of the membrane by brooming and power vacuuming.</p> <p>Concrete: All concrete substrates and concrete repair materials must be cured a minimum of 28 days in accordance with ACI-308, or as recommended by the concrete/mortar manufacturer, in order to achieve a minimum hardness of 3,500 psi (25 N/mm²) with a maximum moisture content of six (6) percent or 75% relative humidity. Concrete substrates shall be abrasively cleaned in accordance with ASTM D4259 to provide a sound substrate free from laitance with an open concrete surface. Areas of minor surface deterioration of 0.50 inch (13 mm) or greater in depth, and/or spalls, voids, bug holes and other deterioration on vertical surfaces or horizontal surfaces shall be repaired in accordance with the requirements of the Membrane Manufacturer.</p> <p>Masonry Construction: Walls shall be built with hard kiln dried brick, reinforced concrete block, or waterproof concrete block construction. Flashings must not be applied over soft or scaling brick or concrete, faulty mortar joints, or walls with broken, damaged or leaking coping. Walls of ordinary hollow tile, or other materials which in themselves are not waterproofed, should not be accepted as suitable to receive flashings unless they are properly waterproofed, to prevent moisture infiltration from above or behind the flashing system.</p> <p>Frame Construction: Frame walls are not acceptable to receive cold liquid-applied reinforced membrane flashings unless suitable solid backing for the flashing is provided. As a minimum, plywood sheathing or cement backer board should be used as wall sheathing. Walls sheathed with gypsum wall board or other gypsum based products are not acceptable as a substrate for cold liquid-applied membrane flashings. Suitable stops should be provided at the top of the flashing in curtain wall construction, to ensure a watertight seal for flashings.</p> <p>Steel/Metal: Clean and prepare metal surfaces to near white metal in accordance with SSPC - SP3 (power tool clean) or as required by Membrane Manufacturer. Extend preparation a maximum of 1/8 inch (3 mm) beyond the termination of the membrane flashing materials. Notch steel surfaces to provide a rust-stop.</p> <p>Wood/Plywood: Plywood shall be identified with American Plywood Association (APA) grade trade marks and shall meet the requirements of product standard PS1. After coating the exposed top face of the plywood with ALT Primer, fill all voids, board joints, knot holes, cracks and fastener points with ALT R290 Paste and strip joints with 2-inch (5cm) wide bond breaker tape followed by 6-inch (15cm) minimum wide strips of ALT R230 membrane centered over joint.</p> <p>Insulation: After coating the exposed top face of the insulation or overlay board with ALT Primer, fill all voids and fastener points with ALT R290 Paste and strip joints with 4 inch (10 cm) minimum wide strips of ALT R230 membrane.</p> <p>Other Flashing Surfaces: Remove all contaminants and prepare surface as required by Membrane Manufacturer.</p>
<p>Primer:</p>	<p>Prime all substrates as recommended or required by Membrane Manufacturer. Primer is required on asphalt, concrete, wood and metals. For other substrates, contact the Membrane Manufacturer for recommendations.</p>

<p>Primer: (cont.)</p>	<p>Asphalt/Concrete/Wood: Apply two component ALT Primer with a lambswool roller. Minimum consumption*: 0.037 kg/ft² (0.4 kg/m²) Cure Time: Minimum of 45 minutes.</p> <p><u>Metal:</u> Apply single-component ALT Metal Primer with a lambswool roller. Minimum consumption: 0.007 - 0.009 kg/sf (0.08 – 0.1 kg/m²) Minimum Cure Times: 2-hours @ 86° F (30° C) 4-hours @ 68° F (20° C) 6-hours @ 50° F (10° C) 12-hours @ 38° F (3° C)</p> <p><i>*Note: Consumption and yield of primer will vary depending upon smoothness and absorbency of the substrate.</i></p>
<p>Flashing:</p>	<p>Apply an even layer of ALT Matrix R295 resin over flashing substrate using a lambswool roller and allow to cure until solid.</p> <p>Recommended consumption: 0.15 kg/sf (1.6 kg/m²) to 0.20 kg/sf (2.2 kg/m²) at 60 to 80 mil thickness respectively.</p> <p>Laps/Seams: Maintain a minimum 2-inch (5 cm) overlap at all side laps of adjacent rows and 4-inch (10 cm) overlaps at butt laps, tie-ins and flashings.</p> <p>Curing: ALT Matrix R295 is rainproof after approximately 30-minutes, and can be walked-on or top coated with aesthetic and/or skid resistant surface topcoat in approximately 45-minutes.</p>
<p>Finishes:</p>	<p>Where specified, provide and install Membrane Manufacturers optional proprietary aesthetic and/or non-skid finish. Apply an even topcoat of ALT Finish 288 smooth pigmented or ALT Finish 220 Clear using a hard rubber squeegee and a lambswool roller.</p> <p>Minimum consumption: 0.06 kg/sf (0.65 kg/m²).</p> <p>Curing: ALT Finish is rainproof after approximately 30-minutes, and can be walked-on in approximately 2-hours. ALT Finish should be applied within 24-hours of the membrane application. If the finished is applied any time after this, the top layer of the membrane must be cleaned with ALT Activator.</p>
<p>Staging:</p>	<p>In a normal liquid-applied membrane application, flashings are installed first, followed by the application of the field and optional aesthetic or anti-skid finish topcoats.</p> <p>Work Interruptions: If work is interrupted for more than 12-hours, use ALT Activator to reactivate the transition area. ALT Activator should be allowed a minimum of 20-minutes evaporation time after application, and over-coated within 60-minutes of application. Re-apply ALT Activator as required to assure proper reactivation of transition areas.</p> <p>Tie-ins: For all tie-in locations, provide a minimum overlap of 4 inches (10 cm), reinforcing fabric and resin.</p>
<p>Protection:</p>	<p>Upon completion of new work (including all associated work), institute appropriate procedures for surveillance and protection of finished work during remainder of construction period. Protect all areas where membrane has been installed.</p>

DISCLAIMER

NO WARRANTY, EXPRESS OR IMPLIED, IS MADE IN THIS DOCUMENT. THE PRODUCT IS NOT CLAIMED TO BE MERCHANTABILITY OR FIT FOR ANY PARTICULAR PURPOSE. User and certified ALT Global applicators determine suitability only. See individual ALT Global product data sheets, MSDS sheets, guide specifications and details for complete information regarding the suitability, application and handling of ALT Global products.