

ALT R230 Membrane **Granulated** **SBS/APP Recovery Specification**



Technical Data Sheet

PART 1 GENERAL	
System:	New cold liquid-applied reinforced roof membrane and optional light roof traffic surfacing system, including all other ancillary roof work but not limited to installation of roof drain, penetration and perimeter flashings, sealants and metal work as specified. This specification is recommended for roofing applications with limited access. For projects intended with regular roof traffic, see <i>ALT R230 Membrane Roofing & Walk-able Surfacing</i> specification.
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 R230 membrane, providing the substrate is a minimum of 5 degrees above the dew point temperature, clean and dry.
Roofing Warranty:	Manufacturer's Warranty: Provide 20-year standard manufacturer's warranty under provisions of this section.

PART 2 PRODUCTS	
Membrane:	Cold liquid-applied reinforced membrane with non-woven reinforcing fabric, for a finished dry film membrane thickness of .080 inch nominal per ply; slip-resistant aggregate and colored topcoat finish as selected by owner from manufacturer's standard palette of colors; conforming to ASTM C 836. Subject to compliance with requirements, provide ALT R230 resin for use in an adhered membrane waterproofing and surfacing system.
Flashing:	Cold liquid-applied membrane with a non-woven reinforcing fabric, 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 R230 Thixo resin for use in an adhered flashing membrane system.
Accessories:	Provide resin primers, additives, surfacing topcoats, and accessory products as required or recommended by the Membrane Manufacturer.

PART 3 EXECUTION	
Preparation:	<p>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. Some surfaces may require scarifying, sandblasting or grinding to achieve a suitable substrate.</p> <p>Substrate shall have maximum moisture content of six (6) percent or 75% relative humidity, and be prepared as required to provide adhesion of the membrane to substrate with minimum bond strength of 116 psi (0.8 N/mm²) for roofing applications. Determinations of bond strength and moisture content shall be performed periodically by the Contractor throughout the course of work.</p> <p>The existing roof system shall remain, and the substrate prepared for application of the new roof system. All defects in the roof deck or substrate, areas of rotten, wet or deteriorated insulation or other affected materials must be removed and replaced with new to match existing. Strip and remove all existing roof membrane/metal drain penetration and perimeter flashings. Prepare flashings substrate as required for application of new cold liquid-applied membrane. Flashings shall be abrasively cleaned or ground as required to provide a sound open abraded surface. At minimum flashings shall be ground for a 4 inch (10 cm) band at all vertical termination points, deck to wall transitions, and 4 inches (10 cm) onto the horizontal roof surface.</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><u>Deck & Flashing Substrates - Asphalt/Concrete/Wood:</u> Apply two-component ALT Primer with a lambswool roller. Minimum consumption: 0.037 kg/sf (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: 0.016 - 0.02 kg/ft² (0.17 – 0.2 kg/m²) Minimum Cure Times: 1-hour minimum @ 86° F (30° C) 2-hours minimum @ 68° F (20° C) 3-hours minimum @ 50° F (10° C) 4-hours minimum @ 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 base layer of ALT R230 Thixo resin, work ALT Fleece reinforcement into the wet resin saturating from the bottom up removing trapped air using a lambswool roller. Apply supplemental ALT R230 resin directly over the fleece as required to complete saturation and allow to cure until solid.</p> <p>Base Coat: Minimum consumption of 0.21 kg/ft² (2.3 kg/m²) Top Coat: Minimum consumption of 0.09 kg/ft² (1.0 kg/m²)</p> <p>Laps/Seams: Maintain a minimum 2-inch (5 cm) overlap at all side laps of adjacent fleece rows and 4-inch (10 cm) overlaps at butt laps, tie-ins and flashings (reinforcing and resin).</p> <p>Curing: ALT R230 membrane 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>Main Deck Roof Membrane:</p>	<p>Apply an even base layer of ALT R230 resin, work ALT Fleece reinforcement into the wet resin saturating from the bottom up removing trapped air using a lambswool roller. Apply supplemental ALT R230 resin directly over the fleece as required to complete saturation and allow to cure until solid.</p> <p>Base Coat: Minimum consumption of 0.21 kg/ft² (2.3 kg/m²) Top Coat: Minimum consumption of 0.09 kg/ft² (1.0 kg/m²)</p> <p>Laps/Seams: Maintain a minimum 2-inch (5 cm) overlap at all side laps of adjacent fleece rows and 4-inch (10 cm) overlaps at butt laps, tie-ins and flashings (reinforcing and resin).</p> <p>Curing: ALT R230 membrane 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>Overlap Surfacing Preparation: (Optional)</p>	<p>When required for improved aesthetics, apply ALT R290 Paste to cured ALT R230 membrane at all fleece laps and joints. ALT R290 Paste should be applied in a spackling fashion to “feather-in” the high side of the overlap. After curing the ALT R290 Paste may be lightly sanded as needed.</p>
<p>Surfacing Option 1: LD Wearing Layer (1-year warranty)</p>	<p>This option provides for slip-resistant wearing surface for light-duty roof traffic using ALT Finish 288 (pigmented) or ALT Finish 288 mixed with ALT Anti-Slip Additive.</p> <p><u>Wearing Coat:</u> Apply an even layer of ALT Finish 288 (with or without pre-mixed with ALT Anti-Slip Additive) using the lambswool roller at the following minimum consumption rates:</p>

<p>Surfacing Option 1: LD Wearing Layer (continued)</p>	<p>On smooth surfaces: 0.05 kg/ft² (0.6 kg/m²) Mixed with AS-Additive: 0.04 kg/ft² (0.5 kg/m²)</p> <p><i>Note: Mix approximately 1 to 2 bags (0.23-0.46 kg) of ALT A-S Additive with each 10-kg unit of ALT Finish 288 Resin.</i></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>Surfacing Option 2: MD Wearing Layer (3-year warranty)</p>	<p>This option provides for slip-resistant wearing surface for medium-duty roof traffic using a combination of ALT RS291 Textured Finish.</p> <p><u>Wearing Coat:</u> Apply an even layer of ALT RS291 Textured Finish using the lambswool roller.</p> <p>Wearing Coat: Minimum consumption of 0.11 kg/ft² (1.2 kg/m²)</p> <p>Curing: ALT RS291 Textured 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 ALT R230 membrane application, flashings are installed first, followed by the application of the deck waterproofing, aggregate surfacing and seal-coats.</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>Water Testing:</p>	<p>Prior to applying aggregate finish and seal-coat, flood test all horizontal applications with a minimum 2” (51 mm) head of water for 24 hours. Mark any leaks and repair when the membrane is dry. Before flood testing, be sure the structure will withstand the dead load of the water. For well-sloped decks, segment the flood test to avoid deep water near drains.</p> <p>Conduct the flood test after completing the ALT R230 membrane application. Immediately after the flood test and all necessary repairs are made apply surfacing and finish.</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 MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE. User and certified ALT Global applicators determine suitability only. See individual ALT Global product data sheets, SDS sheets, guide specifications and details for complete information regarding the suitability, application and handling of ALT Global products.