

ALT R359/RS291 Membrane W.P. & Traffic Surfacing Specification



Technical Data Sheet

PART 1 GENERAL	
System:	Unreinforced waterproofing and surfacing system for normal duty traffic areas over acceptable spaces where a reinforced waterproofing membrane is not required, and all other ancillary work including but not limited to installation of drain, penetration and perimeter flashings, sealants and metal work as specified.
Weather Restrictions:	Do not apply membrane during or with the threat of inclement weather. Application of cold liquid-applied membrane and surfacing may proceed while air temperature is between 37° F (3° C) and 95° F (35° C) for ALT primers, resins, mortars and finishes or 23° F (-5° C) and 95° F (35° C) for ALT R230 Thixo flashing membrane, providing the substrate is a minimum of 5 degrees above the dew point temperature, clean and dry.
Waterproofing Warranty:	Waterproofing Warranty: Provide 5-year standard manufacturer's warranty under provisions of this section.
Surfacing Warranty:	Surfacing Warranty: Provide 5-year material warranty under provisions of this section based on the surfacing option selected.

PART 2 PRODUCTS	
Waterproofing Membrane:	Cold liquid-applied membrane with finished dry film membrane thickness of .040 inch nominal; 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 R359 resin for use in an adhered membrane waterproofing system.
Surfacing:	Cold liquid roller-applied traffic surfacing layer with finished dry film membrane thickness of .070 inch nominal, aggregate surfacing, and colored abrasion resistant topcoat as selected by owner from manufacturer's standard palette of colors. Subject to compliance with requirements, provide ALT RS291 Textured Finish resin for use in a non-reinforced waterproofing and traffic surfacing system as required and/or recommended by the Membrane Manufacturer.
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:	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. All traffic bearing surfaces require scarifying, sandblasting or grinding to achieve a suitable substrate.

<p>Preparation: (cont.)</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 219 psi (1.5 N/mm²) on concrete for traffic surfacing applications. Determinations of bond strength and moisture content shall be performed periodically by the Contractor throughout the course of work.</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>Concrete:</u> Apply two-component ALT Primer 276 with a lambswool roller. Minimum consumption: 0.037 kg/ft² (0.4 kg/m²) Cure Time: Minimum of 45 minutes. <i>Note: Consumption and yield or 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 Waterproofing:</p>	<p>Apply ALT R359 (green) resin to substrate at a rate of 0.15 kg/ft² (1.6 kg/m²) using ALT approved notched squeegee. The Resin should be spread evenly onto the surface. Use caution not to spread resin too thin. ALT R359 membrane is rainproof after approximately 30-minutes, and can be walked-on and topcoated in approximately 1-hour.</p> <p><i>Note: ALT R359 may only be applied as a waterproofing layer when substrate and structure are sound, exhibit limited deflection and movement, and have been inspected and accepted by ALT Technical Department.</i></p>
<p>Traffic Surfacing Layer:</p>	<p>Apply ALT RS291 Textured Finish resin to create normal-duty traffic surfacing.</p> <p><u>Traffic Surfacing Layer:</u> Apply an even layer of ALT RS291 Textured Finish at a rate of 0.17 kg/ft² (1.8 kg/m²) using an ALT roller. Roll wet resin in two directions (perpendicular) to obtain a uniform finish.</p> <p>Curing: ALT RS291 Textured Finish is rainproof and can be walked-on in approximately 15-minutes and can bear vehicular traffic in approximately 45-minutes.</p>
<p>Staging:</p>	<p>In a normal applications, ALT R230 Thixo flashing and ALT R359 membrane are installed first, followed by the application of ALT R291 Textured Finish topcoat.</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: Tie-in locations should be staggered between coats/plies a minimum of 12-inches (30 cm) whenever possible.</p>
Water Testing:	<p>Prior to applying traffic surfacing and topcoat, 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/R359 membrane waterproofing application. Immediately after the flood test, make all necessary repairs followed by application of traffic surfacing and finish.</p>
Protection:	<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.