

# ALT R230 Membrane Waterproofing & Pedestrian Surfacing Specification



## Technical Data Sheet

### PART 1 GENERAL

<b>System:</b>	Fully reinforced waterproofing membrane with resin-mortar wearing layer, slip-resistant surfacing and aesthetic finish system for walkways, balconies, terraces, plaza and other heavy duty traffic areas over occupied spaces or where reinforced waterproofing is required, and all other ancillary work including but not limited to installation of drain, penetration and perimeter flashings, sealants and metal work as specified.
<b>Weather Restrictions:</b>	Do not apply membrane or other system components during or with the threat of inclement weather. Application of cold liquid-applied system components may proceed while air temperature is between 37° F (3° C) and 95° F (35° C) for ALT primers, mortars and finishes 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.
<b>Waterproofing Warranty:</b>	Waterproofing Warranty: Provide 20-year standard manufacturer's warranty under provisions of this section.
<b>Surfacing Warranty:</b>	Surfacing Warranty: Provide 1, 5, 10 or 12-year material warranty under provisions of this section based on the surfacing option selected.

### PART 2 PRODUCTS

<b>Waterproofing Membrane:</b>	Cold liquid-applied reinforced membrane with non-woven reinforcing fabric, for a finished dry film membrane thickness of .080 inch nominal; integral color 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 system.
<b>Wearing layer &amp; Surfacing:</b>	Cold liquid-applied resin-mortar wearing layer with slip-resistant surfacing and abrasion resistant topcoat as selected by owner from manufacturer's standard components and palette of colors. Subject to compliance with requirements, provide ALT RS233 Mortar in combination with acceptable broadcast aggregate, ALT Finish 288, ALT Finish 220 Clear and/or ALT R268 Textured Coating (see option 1 through 4 below) as required and/or recommended by the Membrane Manufacturer.
<b>Flashing:</b>	Cold liquid-applied membrane with a non-woven reinforcing fabric, for a finished dry film membrane thickness of .080 inch nominal; integral color 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.
<b>Accessories:</b>	Provide resin primers, additives, surfacing topcoats, and accessory products as required or recommended by the Membrane Manufacturer.

### PART 3 EXECUTION

<b>Preparation:</b>	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><b>Preparation: (cont.)</b></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/mm<sup>2</sup>) for flashing applications or 219 psi (1.5 N/mm<sup>2</sup>) for traffic bearing waterproofing applications. Determinations of bond strength and moisture content shall be performed periodically by the Contractor throughout the course of work.</p>
<p><b>Primer:</b></p>	<p>Prime all substrates as recommended or required by Membrane Manufacturer. Primer is required on asphalt, masonry, concrete, wood and metals. For other substrates, contact the Membrane Manufacturer for recommendations.</p> <p><u>Asphalt/Concrete/Wood:</u> Apply two-component ALT Primer with a lambswool roller. Minimum consumption: 0.037 kg/ft<sup>2</sup> (0.4 kg/m<sup>2</sup>) 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/ft<sup>2</sup> (0.17 – 0.2 kg/m<sup>2</sup>) 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><b>Flashing:</b></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/ft<sup>2</sup> (2.3 kg/m<sup>2</sup>) Top Coat: Minimum consumption of 0.09 kg/ft<sup>2</sup> (1.0 kg/m<sup>2</sup>)</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 in approximately 45-minutes.</p>
<p><b>Main Deck Waterproofing:</b></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/ft<sup>2</sup> (2.3 kg/m<sup>2</sup>) Top Coat: Minimum consumption of 0.09 kg/ft<sup>2</sup> (1.0 kg/m<sup>2</sup>)</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 in approximately 45-minutes.</p>





<b>Water Testing:</b>	Prior to applying wearing layer, slip-resistant surfacing and finish topcoat, flood test all horizontal applications with a minimum 2” (51 mm) head of water for 48-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.  Conduct the flood test after completing the ALT R230 membrane waterproofing application. Immediately after the flood test and all necessary repairs are made apply surfacing and finish.
<b>Protection:</b>	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.

**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, SDS sheets, guide specifications and details for complete information regarding the suitability, application and handling of ALT Global products.