

# ALT RS233 Mortar Pedestrian Traffic Surfacing & Waterproofing Specification



## Technical Data Sheet

### PART 1 GENERAL

<b>System:</b>	Heavy duty cold liquid-applied partially reinforced waterproofing and surfacing system for open pedestrian walkways, balconies and terraces with aesthetic topcoat, 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 products during or with the threat of inclement weather. Application of cold liquid-applied system may proceed while air temperature is between 37° F (3° C) and 95° F (35° C) for ALT primer, RS233 Mortar and finish or 23° F (-5° C) and 95° F (35° C) for ALT R230 membrane flashing, providing the substrate is a minimum of 5 degrees above the dew point temperature, clean and dry.
<b>Waterproofing Warranty:</b>	Manufacturer's Warranty: Provide (10) year standard manufacturer's warranty under provisions of this section.
<b>Surfacing Warranty:</b>	Manufacturer's 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>Main Deck Waterproofing &amp; Surfacing:</b>	Trowel-applied resin-mortar waterproof layer, 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 RS233 Mortar for use in a non-reinforced waterproofing and surfacing system.
<b>Flashing:</b>	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.
<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>	<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. All traffic bearing surfaces 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 219 psi (1.5 N/mm<sup>2</sup>) on concrete for traffic surfacing systems. Determinations of bond strength and moisture content shall be performed periodically by the Contractor throughout the course of work.</p>
<b>Primer:</b>	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><b>Primer: (cont.)</b></p>	<p><u>Asphalt/Concrete/Wood:</u> Apply two component ALT Primer with a lambswool roller. Minimum consumption: 0.037 kg/sf (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 mat as required to complete saturation and allow curing 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 with aesthetic and/or skid resistant surface topcoat in approximately 45-minutes.</p>
<p><b>Main Deck Waterproofing:</b></p>	<p>Apply an even base layer of ALT RS233 Mortar using a 3/8" V-notch trowel. Wearing Coat: Minimum consumption of 0.37 kg/ft<sup>2</sup> (4.0 kg/m<sup>2</sup>)</p> <p>Curing: ALT RS233 Mortar is rainproof after approximately 30-minutes, and can be walked-on and finish coated in approximately 1-hour. Prior to applying finish, remove excess aggregate from surface by broom, vacuum or oil-free blower.</p>
<p><b>Surfacing Option 1: (1-year warranty) ALT Finish 288 + ALT Micro-Chips</b></p>	<p>Surfacing option 1 is for <b>private residential applications only, and is not recommended for wet areas or where slip-resistant surfaces are required.</b> This surfacing option uses broadcast acrylic color-chips to create a readily cleanable light-duty wearing surface. A combination of a pigmented finish and colored chips may be used to create a variety of aesthetic treatments. Apply proprietary aesthetic surface topcoat. Apply an even topcoat of ALT Finish 288 pigmented resin using a lambswool roller at a minimum consumption of 0.046 kg/ft<sup>2</sup> (0.50 kg/m<sup>2</sup>). Indirectly broadcast ALT Micro Chips into wet resin using a hopper spray gun. ALT recommends a light broadcast of aluminum oxide or plastic spheres over finished surface to provide slip-resistance as desired or required.</p> <p>ALT Micro-Chips: Available in black, grey or white. A minimum combination of two colors is recommended.</p> <p>Curing: ALT Finish 288 is rainproof after approximately 30-minutes, and can be walked-on in approximately 1-hours. ALT Finish should be applied within 12-hours of the Alt RS233 Mortar application.</p>



<p><b>Surfacing Option 5:</b> <b>(12-year warranty)</b> <b>ALT RS233+ALT R268+</b> <b>ALT Finish Topcoat</b></p>	<p>Surfacing option 5 uses a combination ALT R268 Textured Coating and pigmented finish to create a slip-resistant extra-duty wearing surface. Apply an even layer of ALT R268 Textured Coating using a trowel. Back roll the wet resin using a clean ALT roller pre-wetted with ALT R268 Textured Coating for added texture.</p> <p>Wearing Coat: Minimum consumption of 0.33 kg/ft<sup>2</sup> (3.5 kg/m<sup>2</sup>)</p> <p>Curing: ALT R268 Textured Coating is rainproof and can be walked-on in approximately 15-minutes and can bear vehicular traffic in approximately 45-minutes.</p> <p><u>Finish: (Optional)</u> Where required, apply proprietary aesthetic surface topcoat. Apply an even topcoat of ALT Finish 288 resin using a hard rubber squeegee and lambswool roller at a minimum consumption of 0.046 kg/ft<sup>2</sup> (0.50 kg/m<sup>2</sup>).</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 12-hours of the ALT R268 Textured Coating application.</p>
<p><b>Staging:</b></p>	<p>In a normal ALT RS233 Mortar application, flashings are installed first, followed by the application of the deck waterproofing, slip-resistant surfacing and seal-coat.</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><b>Protection:</b></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.