

ALT R210 Resin Slip-Resistant Coating & Protection System Specification



Technical Data Sheet

PART 1 GENERAL

System:	Medium duty, cold liquid-applied partially reinforced waterproofing and surfacing system for machine rooms, walkways, balconies and terraces with anti-skid 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.
Weather Restrictions:	Do not apply membrane during or with the threat of inclement weather. Application of cold liquid-applied membrane may proceed while air temperature is between 32° F (0° C) and 95° F (35° C) for ALT primer, R210 resin and finish, or 23° F (-5° C) and 95° F (35° C) for ALT R230 Thixo flashings, providing the substrate is a minimum of 5 degrees above the dew point temperature, clean and dry.
Warranty:	Manufacturer's Warranty: Provide (5) year standard manufacturer's warranty under provisions of this section.

PART 2 PRODUCTS

Deck Coating & Surfacing:	Cold liquid-applied 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 R210 resin for use in a non-reinforced waterproofing 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 a maximum moisture content of six (6) percent and 75% relative humidity, and be prepared as required to provide adhesion of the membrane to substrate with a minimum bond strength of 116 psi (0.8 N/mm²) on asphalt or 219 psi (1.5 N/mm²) on concrete. Determinations of bond strength and moisture content shall be performed periodically by the Contractor throughout the course of work.</p>
Primer:	<p>Prime all substrates as recommended or required by Membrane Manufacturer. Primer is required on asphalt, concrete and wood. 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/sf (0.4 kg/m²) Cure Time: Minimum of 45 minutes.</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 Thixo resin directly over the fleece as required to complete saturation and allow to cure until solid.</p> <p>Base Coat: Minimum consumption of 0.19 kg/sf (2.0 kg/m²) Top Coat: Minimum consumption of 0.12 kg/sf (1.3 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>Wearing Layer:</p>	<p>The wearing layer uses a medium grain aggregates to slip-resistant wearing surface. A combination of colored aggregates or a pigmented finish may be used to create a variety of aesthetic treatments.</p> <p><u>Wearing Coat/Aggregate Bedding Layer:</u> Apply an even base layer of ALT R210 resin using a lambswool roller. Broadcast aggregate into the wet resin to excess for full coverage.</p> <p>Wearing Coat: Minimum consumption of 0.065 kg/sf (0.7 kg/m²) Quartz Aggregate: Approximate consumption of 0.46 kg/sf (5.0 kg/m²) or 1.0 lbs/sf</p> <p>Aggregate Sizes: Colored Quartz: 0.3 – 0.8mm (Note: Use ALT Finish 220 Clear topcoat) Crystal Quartz: 0.4 - 0.8mm Basalt: 0.5 - 1.2mm</p> <p>Curing: ALT R210 resin is rainproof after approximately 30-minutes, and can be walked-on in approximately 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><u>Finish:</u> Apply proprietary aesthetic seal-coat. Apply an even topcoat of ALT Finish 288 color or ALT Finish 220 Clear using a hard rubber squeegee and lambswool roller. Minimum consumption: 0.046 kg/sf (0.50 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 12-hours of the ALT R210 resin application.</p>
<p>Staging:</p>	<p>In a normal 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>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, MSDS sheets, guide specifications and details for complete information regarding the suitability, application and handling of ALT Global products.