

ALT R210 Resin Slip Resistant Surfacing & Protection System



Technical Data Sheet

PART 1 GENERAL	
System:	Cold liquid-applied partially reinforced protection and surfacing system for machine rooms, walkways, balconies, terraces, sidewalks and slabs with slip-resistant 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 or required.
Weather Restrictions:	Do not apply any system components during or with the threat of inclement weather. Application of cold fluid-applied system components may proceed while ambient temperature (air and substrate) is between 37° F (3° C) and 95° F (35° C) for ALT primers, mortars, surfacing and finish or 23° F (-5° C) and 95° F (35° C) for ALT R230 and R230 Thixo membrane and flashing providing the substrate is a minimum of 5 degrees above the dew point temperature, not frozen, 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 protection layer with broadcast aggregate and finish topcoat as selected by owner from manufacturer's standard palette of colors. Subject to compliance with requirements, provide ALT R210 resin and ALT Finish 288/220 for use in a non-reinforced protection 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, aggregate, 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 and 75% relative humidity, and be prepared as required to provide adhesion of the membrane to substrate with a minimum bond strength of 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, 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.</p>

<p>Primer: (cont.)</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>Where required, apply cold liquid-applied reinforced membrane flashings at all perimeter terminations and penetrations. 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 0.21 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>Wearing Layer & Surfacing:</p>	<p>The wearing and slip-resistant surfacing layer is created by broadcasting kiln-dried aggregate into ALT R210 Resin wearing layer followed by a sealcoat of ALT Finish. Combinations of colored aggregates with clear finish or aggregate top-coated with 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 0.125 kg/ft² (1.34 kg/m²) Quartz Aggregate: Approximate consumption of 0.46 kg/ft² (5.0 kg/m²) or 1.0 lb/ft²</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> Seal broadcast aggregate using Manufacturer’s proprietary aesthetic finish. Apply an even topcoat of ALT Finish 288 color or ALT Finish 220 Clear at minimum consumption of 0.06 kg/ft² (0.70 kg/m²) using a hard rubber squeegee by pulling the resin over the aggregate and using a dry lambswool roller to remove puddling or excess.</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>

Staging:	<p>In a normal application, flashings are installed first, followed by the application of the deck waterproofing with broadcast aggregate and finish 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>Reinforced Membrane Tie-ins: For all tie-in locations, provide a minimum overlap of 4 inches (10 cm), reinforcing fabric and resin.</p>
Protection:	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 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.