

ALT Waterproofing & Surfacing Vehicular Traffic Joint Repair Specification



Technical Data Sheet

PART 1 GENERAL	
System:	Fully reinforced joint waterproofing and surfacing system for vehicular parking decks and other heavy duty traffic areas over occupied spaces or where a reinforced waterproofing membrane is required.
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, 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.
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	
Traffic Joint Waterproofing Membrane:	Cold liquid-applied reinforced membrane with non-woven reinforcing fabric, for a finished dry film membrane thickness of .080 inch nominal per ply; 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 R230 resin for use in an adhered membrane waterproofing system.
Wearing layer & Surfacing:	Cold liquid-applied self-leveling waterproof mortar wearing layer with slip-resistant trowel applied mortar topcoat as selected by owner from manufacturer's standard palette of colors. Subject to compliance with requirements, provide ALT RS233 Mortar with an overlay of ALT R268 Textured Coating.
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. All traffic bearing surfaces require scarifying, sandblasting or grinding to achieve a suitable substrate.</p> <p>Mill concrete both sides of joint to as required to provide recessed installation of ALT R230 waterproofing membrane, ALT RS233 Mortar and ALT R268 Textured Coating. Top surface of ALT R268 Textured Coating should be flush with plane of adjacent concrete.</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 276K with a lambswool roller. Minimum consumption: 0.07 kg/ft² (0.8 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>Traffic Joint Waterproofing:</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/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>Protection Layer:</p>	<p>Apply ALT RS233 Mortar directly over ALT R230 waterproofing membrane as a protection layer.</p> <p>Quartz Aggregate: Approximate consumption of 0.46 kg/ft² (5.0 kg/m²) or 1.0 lbs/ft² Quartz Aggregate Sizes: Crystal Quartz: 0.7 – 1.2mm Basalt: 0.5 - 1.2mm</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><u>Finish:</u> 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 0.06 kg/ft² (0.65 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 RS233 Mortar application.</p>
<p>Traffic Surfacing Layer:</p>	<p>Apply ALT R268 Textured Coating using a trowel at minimum consumption of 0.33 kg/ft² (3.5 kg/m²)</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>Staging:</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>

Water Testing:	<p>Prior to applying protection layer or traffic surfacing, flood 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 membrane waterproofing application. Immediately after the flood test make all necessary repairs. Re-test repaired membrane waterproofing as required. When complete, apply protection layer and traffic surfacing.</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.