

ALT RS233 Mortar Vehicular Traffic Surfacing & Waterproofing Specification



Technical Data Sheet

PART 1 GENERAL

System:	Heavy duty cold liquid-applied partially reinforced waterproofing and surfacing system for open parking decks and vehicular traffic areas, 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 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 Thixo flashing, providing the substrate is a minimum of 5 degrees above the dew point temperature, clean and dry.
Warranty:	Manufacturer's Warranty: Provide (10) year standard manufacturer's warranty under provisions of this section.

PART 2 PRODUCTS

Deck Waterproofing & Surfacing:	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.
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. 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/mm²) 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>
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><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:</p>

<p>Primer: (cont.)</p>	<p>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>Apply an even base layer of ALT R230 Thixo, 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/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>Main Deck Wearing & Waterproofing Layer:</p>	<p>The main deck wearing layer provides for the use of coarse grain aggregates to create a highly slip-resistant wearing surface. A combination of aggregates and 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 RS233 Mortar using a 3/8" V-notch trowel. Broadcast quartz aggregate into the wet resin to excess for full coverage.</p> <p>Wearing Coat: Minimum consumption of 0.37 kg/ft² (4.0 kg/m²)</p> <p>Quartz Aggregate: Approximate consumption of 0.46 kg/ft² (5.0 kg/m²) or 1.0 lbs/ft²</p> <p>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 pigmented resin using a hard rubber squeegee and lambswool roller at 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>Ramps, High Traffic Areas & Turning Radii:</p>	<p>For steep and/or high use ramps and turning radii apply an even layer of ALT R268 Textured Coating by trowel over the in-place ALT RS233 Mortar waterproofing layer.</p> <p>Coverage: Minimum consumption of 0.33 kg/ft² (3.5 kg/m²)</p> <p>Curing: ALT R268 Textured Coating is rainproof after approximately 15-minutes, and can be driven-on in approximately 1-hour provided the ALT RS233 Mortar wearing layer has cured for more than 12-hours.</p>

Staging:	<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>
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

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