ALT R230 Membrane **Waterproofing Specification (exposed applications)**

Technical Data Sheet

PART 1 GENERAL	
System:	New cold liquid-applied reinforced waterproofing membrane integrally colored, and all other ancillary work including but not limited to installation of insulation, protection board, penetration 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 reinforced membrane may proceed while air temperature is between 32º F (0º C) and 95º F (35º C) for ALT primer and finish or 23º F (-5º C) and 95º F (35º C) for ALT R230 membrane, providing the substrate is a minimum of 5 degrees above the dew point temperature, clean and dry.
Warranty:	Manufacturer's Warranty: Provide 20-year standard manufacturer's warranty under provisions of this section.

PART 2 PRODUCTS	
Waterproofing Membrane:	Cold liquid-applied membrane with 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 resin for use in an adhered membrane waterproofing system.
Accessories:	Proprietary resin primers, additives, surfacing topcoats, and accessory products as required or recommended by the Membrane Manufacturer.

PART 3 EXECUTION	
Preparation:	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. Traffic bearing surfaces require scarifying, sandblasting or grinding to achieve a suitable substrate. 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 116 psi (0.8 N/mm^2) for waterproofing applications. Determinations of bond strength and moisture content shall be performed periodically by the Contractor throughout the course of work.
Primer:	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. Asphalt/Concrete/Wood: Apply two component ALT Primer with a lambswool roller. Minimum consumption*: 0.037 kg/ft^2 (0.4 kg/m^2) Cure Time: Minimum of 45 minutes. **Note: Consumption and yield or primer will vary depending upon smoothness and absorbency of the substrate.*

Flashing:	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 fleece as required to complete saturation and allow to cure until solid. Base Coat: Minimum consumption of 0.19 kg/ ft^2 (2.0 kg/m^2) Top Coat: Minimum consumption of 0.12 kg/ ft^2 (1.3 kg/m^2) 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). 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.
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Staging:	In a normal ALT R230 membrane application, flashings are installed first, followed by the application of the field and optional aesthetic or anti-skid finish topcoats. 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. Tie-ins: For all tie-in locations, provide a minimum overlap of 4 inches (10 cm), reinforcing fabric and resin.
Water Testing:	Test all horizontal applications with a minimum 2” (51 mm) head of water for 24 hours. Test all vertical applications with a continuous stream of water spray for 24 hours. Mark any leaks and repair when the membrane is dry. 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. Conduct the flood test after completing the ALT R230 waterproofing application. Immediately after the flood test and all necessary repairs are made, install overburden to protect membrane from damage by other trades.
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, MSDS sheets, guide specifications and details for complete information regarding the suitability, application and handling of ALT Global products.