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# General Application Guidelines

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## Technical Data Sheet

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### Material Storage

ALT products and components will be delivered to the site in original sealed containers/packaging. Define a storage area for all components that is cool, dry, out of direct sunlight, and in accordance with recommendations of ALT and relevant regulatory agencies. Roll goods must be stored on-ends sufficiently elevated to prevent contact with water and other contaminants. DO NOT use rolls with damaged ends. Store solvent-bearing solutions, resins, and additives in accordance with the MSDS and/or local fire and regulatory authorities. Materials should not be stored in quantities that will exceed design loads, damage substrate materials, hinder installation or drainage.

### Work Place Safety

Provide and maintain positive ventilation and protection to workers for confined and/or interior application or applications lacking sufficient natural air movements. Protect building air intake paths as needed to prevent odor infiltration to the interior. Coordinate protective measures with the owner or his designated representative. Provide protection for contractor personnel and occupants of the structure and surrounding buildings as required complying with requirements of OSHA, NIOSH and/or governing local authority.

Comply with requirements of OSHA, NIOSH or governing local authority for work place safety. When required, provide barricades, retaining ropes, safety elements (active/passive) and any appropriate signage required by OSHA, NIOSH, and NSC and/or the owner or his designated representative. Contractor must be familiar with and observe OSHA Regulations CFR 1926/1910 (current issue) regarding use and handling of resins with organic peroxide catalyst.

Note: Copies of all current MSDS for all components must be kept on site. Provide all crewmembers with appropriate safety data information and training as is related to the specific chemical compound he or she may be expected to deal with. Each crew member shall be fully aware of first-aid measures to be undertaken in case of accidents.

### Odor Control

Where required by the owner or his designated representative, implement odor control and elimination measures before and during the application of the liquid applied waterproofing materials. Control/elimination measures must be field tested at off-hours and typically consists of one or more of the following measures:

- Sealing of air intakes with activated carbon filters, and at joints against building exterior walls to prevent leakage of unfiltered air into occupied spaces.
- Erection and use of moveable enclosures sized to accommodate work areas and stationary enclosure for resin mixing station equipped with mechanical air intake/exhaust openings, odor control air cleaners, and activated carbon filter at exhaust openings as required to clean enclosed air volume and to prevent odor migration outside the enclosure. Placement of odor elimination stations inside and outside of the enclosures as required.

### Environmental Requirements

Do not apply membrane during or with the threat of inclement weather. Generally, ALT products and systems may be applied while ambient temperature is between 37°F (3°C) and 95°F (35°C) providing the substrate is a minimum of 5 degrees above the dew point temperature, clean and dry.

### Final Substrate Inspection

After completing any necessary surface preparation, check to see that all substrates are clean and dry before application of any ALT materials.

Substrate shall have a 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 a minimum bond strength of 116 psi (0.8 N/mm<sup>2</sup>) for roofing applications or 219 psi (1.5 N/mm<sup>2</sup>) for traffic systems. Determinations of bond strength and moisture content shall be performed periodically by the contractor throughout the course of work.

## Masking & Protection

ALT products are liquid applied resins. Protect adjacent building surfaces from stains and/or spills during application by use of tarps or other protective measures. When working on membrane terminations, masking tape may be used to provide clean lines at membrane edges and protect areas adjacent to work. Remove all tape and masking while resin is wet.

## Work Interruptions & Staging

If work is interrupted for more than 12-hours, use ALT Activator to clean and 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.

For all tie-in locations, provide a minimum overlap of 4 inches (10 cm) including both reinforcement and resin.

Protect all areas where membrane has been installed.

Movement of materials and equipment across installed membrane is not acceptable. If movement is necessary, provide complete protection of areas to be trafficked.

## Tool Use and Care

Consumption of brushes and rollers will vary depending upon temperature and the type of resin being used.

Roller knaps must be discarded once they stiffen. For prolonged roller life, roll knaps dry (so strip is visible) on a clean piece of cardboard. Eventually the roller knap will harden as resin begins to cure requiring a new replacement.

Roller handles and tools may be discarded or cleaned with ALT Activator. To minimize cleaning, wipe handles and tools with clean, dry cloth every 15-minutes and schedule work to avoid stopping.

## Alkalinity Protection

ALT MMA membranes are alkaline proof. However, where placement of fresh concrete or mortar is required over sections of the waterproofing membrane, ALT recommends applying a subsequent application of an appropriate MMA resin at a minimum consumption of 0.14 kg/sf (1.5 kg/m<sup>2</sup>). Where the membrane will be used as a substrate for thin-set materials, the wet resin topcoat should be broadcast to refusal with kiln-dried quartz silica sand (0.7 – 1.2mm) at an approximate consumption of 0.65 kg/sf (7.0 kg/m<sup>2</sup>) or 1.4 lbs/sf.

The protective topcoat of MMA resin must extend a minimum of 4 inches past the concrete form on all

sides and vertically on all penetrations and flashings to the height of the overburden.

**Note:** Provide continuous cleaning with water and brush (high-pressure water if necessary) to eliminate settlement of concrete residues on in-place roofing/waterproofing membrane adjacent to area of concrete placement.

## Application Quality Control

Determinations of bond strength and moisture content should be performed periodically by the contractor throughout the course of work.

Bond strength and adhesion can be monitored at the job site using an Elcometer Adhesion Tester Model 106 or similar device. Perform tests on completely cured membrane at the beginning of the work, and at intervals as required assuring specified adhesion, with a minimum of three (3) tests per 5000 ff (464.5 m<sup>2</sup>). In the event the tensile bond strengths are lower than the minimum specified, additional substrate preparation is required. Repeat testing to verify suitability of substrate preparation. Contractor shall immediately notify the ALT in the event tensile bond test results are below specified values.

## Protection

Protect finished application from all other contractors and activities during and after completion. Any damage to the system must be repaired as recommended by ALT.

## Clean-Up & Disposal

Remove all masking, protection, equipment, materials, and debris from the work and storage areas and leave those areas in an undamaged and acceptable condition.

Cured ALT resins and primers may be disposed of in standard landfills. This is accomplished by thoroughly mixing all components. Uncured ALT resin is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations.

## DISCLAIMER

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