

ASLAN RS General Application Guidelines

Material Delivery, Storage & Handling

SOPREMA ALSAN RS products and components should be delivered to the project site and stored in their unopened, original packaging. Refer to individual Product Data Sheets and Safety Data Sheets (SDS) for storage, handling, related hazards, and precautions to comply necessary with storage and handling requirements.

Generally, ALSAN RS materials should be protected and stored in a dry, well-vented and weatherproof location out of direct sunlight. Care should be taken to store ALSAN RS Fleece on-end sufficiently elevated to protect from contact with water and other contaminants. Only materials to be used the same day shall be removed from this location.

When ALSAN RS materials will be stored outdoors, store away from standing water, stacked on raised pallets or dunnage, at least 4 in (100 mm) or more above ground level. Carefully cover storage with "breathable" tarpaulins to protect materials from precipitation and to prevent exposure to precipitation, condensation and sunlight.

ALSAN RS materials should not be stored in quantities that will exceed structural loading capacities, damage the substrate, hinder installation or restrict drainage. All damaged materials shall be removed from job site and replaced with new, suitable materials.

Project Safety

The contractor shall be responsible for complying with all project-related safety and environmental requirements. Before handling ALSAN RS materials, refer to product Safety Data Sheets (SDS) for health, safety, and environment related hazards, and take all necessary measures and precautions to comply with exposure requirements.

Copies of current Safety Data Sheets (SDS) and Product Data Sheets (PDS) for applicable ALSAN RS components or materials must be kept on site and be readily available. Provide all workers with appropriate safety information, training and personal protective equipment as required for the specific materials to be handled and used.

Odor Control

Where required by the owner or owner's designated representative, implement odor control and elimination measures before mixing and applying any ALSAN RS materials. Odor control and elimination measures should 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.

General Substrate Requirements

The contractor shall evaluate jobsite conditions to determine suitability for ALSAN RS application assuring substrates are compatible, secure and structurally sound.

SOPREMA recommends suitable substrates have a maximum moisture content of 75% relative humidity (RH), and be prepared as required to provide adhesion of ALSAN RS components to substrate with a minimum bond strength of 116 psi (0.8 N/mm²) for roofing applications or 220 psi (1.5 N/mm²) for traffic bearing waterproofing and surfacing systems. Determinations of bond strength and moisture content

should be performed periodically by the applicator throughout the course of work.

After completing any necessary surface preparation, check to see that all substrates are clean, dust free, dry and in accordance with SOPREMA ALSAN RS substrate preparation guidelines before application of any ALSAN RS materials.

Environmental Conditions

Generally, ALSAN RS components may be applied while ambient temperatures remain 5°F (3°C) above the dew point and temperatures are between 32°F (0°C) to 95°F (35°C) for most resins and between 23°F (-5°C) and 95°F (35°C) for ALSAN RS 230 winter grade resins. However air, substrate and resin temperatures are all factors in the proper application of ALSAN RS components and must be taken into account to determine percentage of ALSAN RS Catalyst addition, pot life and cure times.

The recommended air, substrate and resin temperature by ALSAN RS product are as follows:

ALSAN RS Product:	Air °F (°C)	Substrate °F (°C)	Resin °F (°C)
222, 276, 287, 289, Detailer, Paste, Textured Coating	32 – 95 (0 – 35)	32 – 122 (0 – 50)	37 – 86 (3 – 30)
230 Field, 230 Flash (summer)	37 – 95 (3 – 35)	37 – 122 (3 – 50)	37 – 86 (3 – 30)
230 Field, 230 Flash (winter)	23 – 95 (0 – 35)	23 – 122 (0 – 50)	37 – 86 (3 – 30)
260 LO Field, 260 LO Flash (summer)	50 – 95 (10 – 35)	50 – 122 (10 – 50)	50 – 86 (10 – 30)
260 LO Field, 260 LO Flash (winter)	37 – 68 (3 – 20)	41 – 86 (5 – 30)	41 – 86 (5 – 30)
233 Self-Leveling Mortar	37 – 95 (3 – 35)	37 – 122 (3 – 50)	37 – 86 (3 – 30)
263 LO Self-Leveling Mortar	37 – 95 (3 – 35)	41 – 122 (5 – 50)	37 – 86 (3 – 30)

Monitor ambient, substrate and material temperature, as well as all environmental conditions such as forecasted precipitation, sun, cloud cover, shade, wind, humidity, and dew point. Resin temperature is generally the primary influence on pot life and cure time. In high and low ambient temperatures provide jobsite protection for resin storage and mixing for optimum pot-life and workability. Ensure conditions are satisfactory to begin work and ensure conditions remain satisfactory during the installation of specified materials. Materials and methods shall be adjusted as necessary to accommodate varying project conditions.

Materials shall not be installed when conditions are unacceptable to achieve the specified results.

Refer to individual Product Data Sheets (PDS) for specific product environmental restrictions, recommendations or requirements. Do not apply ALSAN RS materials during or with the threat of inclement weather.

Masking & Protection

ALSAN RS 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 should be used to provide clean lines at membrane edges and protect areas adjacent to work. Remove all tape and masking while resin is wet.

Typical Installation & Staging

In typical ALSAN RS applications the substrate is prepared, primed, flashings installed followed by the application of the field membrane, mortar, surfacing and finish. When applying broadcast aggregate, the aggregate should not be left subject to the elements, and therefore must be top-coated with finish the same day of application whenever possible.

Measuring Product Consumption & Batch Mixing

ALSAN RS components are generally packaged and applied by weight. Typically, resin consumption for ALSAN RS components are provided by kg/ft² (kg/m²) with a comparative reference to kg's per liter. For jobsite batch mixing ALSAN RS components can be reliably measured using sturdy, solvent resistant clear plastic mixing containers calibrated for measuring in liters or using any weight scale capable of reading grams or kilograms. When ALSAN RS resin components need to be measured, thoroughly mix the entire drum of resin for 2-3 minutes before each use, and prior to pouring off into a secondary container using for measuring and/or mixing. Refer to individual ALSAN RS Product Data Sheets (PDS) for specific product application rates and consumption.

Steep Slope Applications

ALSAN RS resins are produced ready for application at low slopes, but may be applied at any desired slope by adjusting the resin viscosity with ALSAN RS Liquid Thixo. For slopes exceeding 1-1/2 : 12, ALSAN RS resins may be pre-mixed with ALSAN RS Liquid Thixo at up to 2% addition by weight when recommended. The amount of thixotropic additive needed will vary by slope and temperature. Addition of ALSAN RS Liquid Thixo should be done following the below guidelines: Thoroughly mix the entire drum of ALSAN RS resin for 2-3 minutes before each use, and prior to pouring off resin into a second container if batch mixing, using a mixing stick or slow-speed mechanical mixer with spiral agitator taking care not to aerate the resin. Add the required amount of ALSAN RS Liquid Thixo into the uncatalyzed ALSAN RS resin and mix for 2- 3 minutes.

- Test the amount of ALSAN RS Liquid Thixo required by mixing small batches before mixing entire units of product.
- Start by adding ALSAN RS Liquid Thixo at 1% addition.
- Resin mixed with ALSAN RS Liquid Thixo must be allowed to stand 20 to 30 minutes before checking viscosity or use. Adjust the
- Amount of ALSAN RS Liquid Thixo as needed until the desired viscosity is reached.
- Approximately (1) TBSP = 20g or 2% of ALSAN RS Liquid Thixo per kg of ALSAN RS resin.

Note: Storage and working times are not affected by addition of ALSAN RS Liquid Thixo mixed with uncatalyzed resin.

Work Interruptions

If work is interrupted for more than 12 hours, use ALSAN RS Cleaner to clean and prepare ALSAN RS applied primer, resin mortar, flashing or field membrane transition areas. Cleaner should be allowed a minimum of 20 minutes evaporation time after application and covered within 60 minutes of application or as recommended by SOPREMA.

Tool Use and Care

Brushes and roller knaps are consumable items, and must be discarded once they have stiffened. Consumption of brushes and rollers will vary depending upon temperature and the type of resin being used. For prolonged roller life, roll knaps dry (so stripe is visible) on a clean piece of cardboard. Eventually the roller knap will harden as resin begins to cure requiring replacement.

Roller handles and metal tools may be cleaned with ALSAN RS Cleaner. To minimize cleaning, wipe re-useable handles and tools with clean, dry cloth as needed before resin components cure and schedule work to avoid stoppages.

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 appropriate adhesion tester. Perform tests on completely cured sample membranes applied adjacent to work at start-up, and intervals as required throughout the project assuring specified adhesion with a minimum of three tests per 5000 ft² (465 m²). 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 SOPREMA in the event tensile bond test results are below recommended criteria.

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 ALSAN RS components may be disposed of in standard landfills. Before disposal, thoroughly mix all leftover components, mixing buckets, and/or empty cans with residual product residue with ALSAN RS Catalyst Powder and allow time to fully harden. Uncured ALSAN RS resins must be handled as required in individual product SDS and in accordance with local, state and federal regulations.

Protection

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