



ALSAN LD H - Horizontal

DESCRIPTION & APPLICATION

Soprema Alsan LD H is a highly flexible, high performance, watertight, puncture and UV resistant ready to use one-component asphalt extended polyurethane resin used in roofing and waterproofing liquid-applied membrane applications. Combined with a patented polyester fleece fabric, it will form a monolithic, self-flashing and self-adhering reinforced waterproofing membrane for variety of new, tear-off and recovery roofing and waterproofing applications. Applied alone in recovery applications, it will form monolithic, self-flashing and self-adhering non-reinforced waterproofing membrane for variety of waterproofing applications.

ALSAN LD H Horizontal can be utilized in the following new, tear-off or recovery applications:

- Roofs (reinforced)
- Roofs (partially & non-reinforced recovery)
- Protective recovery coating (reinforced & non-reinforced)
- Repairs (reinforced)

All substrates must be clean, dry and free of oil, grease, curing compounds, release agents, laitance, gross irregularities, loose, unsound or foreign material such as moss, algae growth, dirt, ice, snow, water or any other condition that would be detrimental to adhesion of resin to the substrate. Apply Soprema Alsan Primer to substrate as required (primer not required over asphaltic surfaces). Refer to Soprema Alsan "Substrate Preparation & Priming Guidelines" for specific recommendations and requirements. Contact Soprema Technical Department for recommendations regarding specific applications.

The product can be applied at the substrate and ambient temperatures between 40°F (5°C) to 96°F (35°C) and maximum 97% relative humidity. Product applied beyond recommended temperature ranges may result in adverse viscosity issues. Contact Soprema Technical Department for further information.

CHARACTERISTICS

	ASTM Test Method	ALSAN LD H
Physical state	-	Viscous liquid
Color	-	Black low luster
Permeability	D 398	.10 perms at 20 mils
Drying time	D 1640-95	9 to 24 h
Tear resistance (psi)	D 1004	30 psi
Solids content by weight (%)	D 1353	90%
Durameter hardness	D 2240	40 Shore A
Elongation (%)	D 412	> 1200%
Tensile strength (psi)	D 412	> 300 psi
UV resistant	D 4799-03	Yes
Ponding water applicable	-	Yes
Odor	-	Low aromatic



PRODUCT PREPARATION & COVERAGE

Thoroughly mix the entire drum of resin for 2-3 minutes before each use, and prior to pouring off resin into a second container if batch mixing. Mix only the amount of resin that can be used within 20-30 minutes. Soprema Alsan Thixo Powder needs to be added to Alsan liquid-applied polyurethane resins that will be used for application on slopes greater than 1½" : 12" and flashing applications as applicable. From 2% - 3% of Soprema Alsan Thixo Powder may be added to resin by weight to create vertical grade for flashing purposes. Add pre-measured Alsan Thixo Powder to the resin component, stir until fully mixed using a slow-speed mechanical agitator (200 to 400 rpm) as air incorporation or splashing from vigorous mixing can create problems, and then apply to substrate.

ALSAN LD H	1 gal. (3.8 kg)	1.3 gal. (5.0 kg)	6.5 gal. (25.0 kg)
2% Thixo	0.16 lbs (0.07 kg)	0.22 lbs (0.1 kg)	1.1 lbs (0.5 kg)
3% Thixo	0.24 lbs (0.11 kg)	0.33 lbs (0.15 kg)	1.6 lbs (0.75 kg)

Recommended application rates:*

Reinforced systems:

- Primer (as specified)
- Base fleece coat – min. 2.0-2.5 gal/sq (32-40 wet mils)
- Fleece embedment
- Top fleece coat – min. 2.0-2.5 gal/sq (32-40 wet mils)
- Finish coat – min. 2.0 gal/sq (32 wet mils)
- Optional anti-slip protective traffic layer (as specified)

Un-reinforced systems:

- Primer (as specified)
- First coat – min. 2 gal/sq (32 wet mils)
- Second coat – min. 2 gal/sq (32 wet mils)
- Optional anti-slip protective traffic layer (as specified)

Partially reinforced systems:

(Flashings, penetrations, etc.)

- Primer (as specified)
- Base fleece coat – min. 2.0-2.5 gal/sq (32-40 wet mils)
- Fleece embedment
- Top fleece coat – min. 2.0-2.5 gal/sq (32-40 wet mils)
- Finish coat – min. 2.0 gal/sq (32 wet mils)
- Optional anti-slip protective traffic layer (as specified)

(Field area)

- Primer (as specified)
- First coat – min. 2 gal/sq (32 wet mils)
- Second coat – min. 2 gal/sq (32 wet mils)
- Optional anti-slip protective traffic layer (as specified)

After mixing, apply resin to clean and prepared substrate at the required consumption using Soprema rollers, brushes and/or notched squeegee. The resin should be spread evenly onto the surface. See individual specifications or contact Soprema Technical Department for recommendations regarding specific guidelines for application of primer, fleece reinforcement, individual coats and/or anti-slip protective traffic surfacing.

* Coverage rates are affected by porosity and texture of the substrate.



HANDLING AND STORAGE

Product is supplied in re-sealable 5 gallon container with locking ring.

Always store product in cool and dry location away from any heat source. Do not store in direct sunlight or in temperature below 40°F (5°C) or above 77°F (25°C). Open with caution as contents may be under pressure. Refer to Material Safety Data Sheet (MSDS) for personal protection, proper handling and storage.

Shelf life: 6 months in original unopened container.

Pot life: Top surface may skin at the top of the container. Always keep the container fully closed when not in use.

When work is interrupted or completed, tools must be thoroughly cleaned with Soprema Alsan Cleaner before the product cures.

SPECIAL INDICATIONS

Safety Instruction:

- Product may be under pressure. Open with caution.
- Always use caution when handling the products. Do not smoke. Keep away from open flame, fire or any ignition source. Avoid skin and eye contact with this product.
- Cured resin may be disposed of in standard landfills. Uncured resin is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations.
- Workers must wear long sleeved shirts, long pants, work boots and use only butyl rubber or nitrile gloves when working with the product. Safety glasses with side shields are required for eye protection. Use of NOISH approved respirator is required if the airborne concentration exceeds recommended limits. For more information, refer to instruction on the label of the can and to relevant Material Safety Data Sheet (MSDS).

Quality control:

SOPREMA has always attached the highest importance to Quality Control. For this reason, we operate an internationally recognized Quality System according to ISO 9001:2000, with the system independently monitored and certified by AFAQ-Association Française d'Assurance Qualité (French Main Quality Certification Office).

GENERAL

SOPREMA is a Certified ISO 9001:2000 worldwide producer of bituminous membranes and a manufacturer of liquid membrane systems with factories in Europe and North America. Waterproofing sheets have been produced by SOPREMA since 1908. SOPREMA has been at the forefront of liquid membrane technology for nearly two decades.