FOAM-LOK™
SPRAY FOAM ROOFING

ENERGY SAVINGS FOR LIFE

Foam-LOK 2.5

Roofing Foam Brand for LPA 2500

Product Design

Foam-LOK™ 2.5 (LPA 2500) is a two-component, closed-cell, polyurethane foam system specifically designed to provide a high performance, light weight roofing system for use over a wide variety of roof deck construction and configurations.

Product Use

Foam-LOK 2.5 locks in every portion of the roof creating a seamless membrane thus eliminating the need for mechanical fasteners — the number one cause of conventional roof leaks. Foam-LOK spray foam roofing can also be applied to vertical surfaces making the seamless coverage self-flashing. In addition to roofing applications, Foam-LOK is also recommended for tank insulation applications.

Product Advantages

- Reduces installation time and costs
- Decreases energy expenses compared to alternative solutions
- Enhances resistance to wind uplift and hail damage
- Provides a waterproof monolithic (seamless) roof system
- Offers a high R-value per inch

Reactivity Selection

Processing Designation:	**Winter**	**Regular**	**Summer**
Surface Temperature:	50-75°F	60-90°F	above 85°F

Heated trailers, hotboxes, or heated tank storage may be necessary. Material temperature should be confirmed with a thermometer or IR gun.

Processing Parameters

Optimum hose pressure and temperature may vary as a function of the type of equipment, ambient and substrate conditions, and the specific application. It is the responsibility of the applicator to properly interpret equipment technical literature, particularly information that relates acceptable combinations of gun chamber size, proportioner output, and material pressures.

Dynamic Pressure	**Preheat Temperature**	**Hose Heat Temperature**
1,000 - 1,400 psi	125 - 135 º F (52 - 57º C)	125 - 135 º F (52 - 57º C)

Drum Temperature: In Use	Surface Temperature	Drum Temperature: Storage
65 - 85º F (18 - 30º C)	125 - 135 º F (52 - 57º C)	60 - 80º F (15 - 26º C)

The shelf life will be 3 months when stored within recommended temperature range.

2:1 transfer pumps are recommended for material transfer from container to the proportioner.

CAUTION: Extreme care must be taken when removing and reinstalling drum transfer pumps so as NOT to reverse the "A" and "B" components.

Do not recirculate or mix other suppliers' "A" or "B" component into Foam-LOK containers.

The plural component proportioner must be capable of supplying each component within ± 2% of the desired 1:1 mixing ratio by volume.

Foam-LOK 2.5 should be applied in lifts or passes of no less than 1.0 inch and no more than 2.0 inch thickness per pass or lift. Minimal passes or reduced thickness will result in elevated density and may not cure properly, reducing the physical performance properties of the system. Applications of greater than 2 inches will result in reduced density and physical properties and may also create scorching of the foam as a result of the exothermic reaction, both of which will reduce the physical performance characteristics of the foam.

Physical Properties

Properties	**Test Method/ Requirements**	**Value**
Aged "R" Value:	ASTM C-518	6.5 per inch
Compressive Strength:	ASTM D-1621 40 min.	45-55 psi
Core Density:	ASTM D-1622	2.4-2.6 lbs./ft3
Closed Cell Content:	ASTM D-2856 90 min.	>90%
Tensile Strength:	ASTM D-1623 60 min.	60-65 psi
Water Absorption:	ASTM D-2842 (1.0 max per volume)	.44

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Water Vapor Permeability @ 74°F, perm inch :	ASTM E-96 2.5 max	1.82 @ 1”
Dimensional Stability: 28 days at 158°F, 98%RH	ASTM D-2126	1.54

Credentials/Certifications

•Underwriters Laboratories Inc. File R14353
•ASTM E-84 Flame Spread Index ≤15; Smoke Development ≤550
•FM Global 4880/4470
•Florida Building Code Approval #11066
•Dade County Approval
•NOA#08-0402.05 Concrete
•NOA#08-0909.05 Recover
•NOA#08-0402.07 Steel
•NOA#08-0402.06 Wood
•California State Fire Marshall
•California Bureau Of Home Furnishings and Thermal Insulation Reg. NO. CA-T444 (TX)

Personal Protection

Handling and Safety

Respiratory protection is **MANDATORY!** Contact Lapolla Industries for a copy of the Model Respiratory Protection Program developed by API or visit their website at www.polyurethane.org. Persons with known respiratory allergies should avoid exposure to the “A” component. The “A” component contains reactive isocyanate groups while the “B” component contains amine and/or catalysts with blowing agents. Both materials must be handled and used with adequate ventilation. The vapors must not exceed the TLV (0.02 parts per million) for isocyanates. Avoid breathing vapors. Wear a NIOSH approved respirator. If inhalation of vapors occur, remove victim from contaminated area and administer oxygen if breathing is difficult.

Call a physician immediately. Avoid contact with skin, eyes, and clothing. Open containers carefully, allowing any pressure to be relieved slowly and safely. Wear chemical safety goggles and rubber gloves when handling or working with these materials. In case of eye contact, immediately flush with large amounts of water for at least fifteen minutes. Consult a physician immediately. In case of skin contact, wash area with soap and water. Wash clothes before reuse.

In Case of Spills or Leaks

Steps To Be Taken-

•Utilize appropriate personal protective equipment (PPE.)
•Contain and cover spilled material with a loose, absorbent material such as oil-dry, vermiculite, sawdust or Fuller’s earth.
•Shovel absorbent waste material into proper waste containers
•Wash the contaminated areas thoroughly with hot, soapy water.
•Ventilate area to remove vapors.
•Report sizeable spills to proper environmental agencies.

In Case of Fire

Extinguishing Media-Dry chemical extinguishers such as mono ammonium phosphate, potassium sulfate, and potassium chloride. Additionally, carbon dioxide, high expansion (proteinic) chemical foam, or water spray for large fires.

DISCLAIMER

The data presented herein is not intended for use by nonprofessional applicators, or those persons who do not purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent tests in order to determine the product’s performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer.

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