

### Product Design

**LPA 2800** 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

**LPA 2800** 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. **LPA 2800** spray foam roofing can also be applied to vertical surfaces making the seamless coverage self-flashing. In addition to roofing applications, **LPA 2800** 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.

### Processing Parameters

Optimum pressure, preheat and hose temperature will vary from machine to machine. The performance of the foam system being applied will also be affected by the ambient and substrate temperatures as well as wind. It is the responsibility of the applicator to determine the optimum processing requirements of his machinery as these will change over the course of the day. The guidelines shown below should be used to determine a starting point for this optimization process.

Dynamic Pressure	Preheat Temperature	Hose Heat Temperature
1,000 - 1,400 psi	120 - 130 °F (49 - 54° C)	120 - 130 °F (49 - 54° C)

Drum Temperature: In Use	Surface Temp.	Drum Temperature: Storage
65 - 85° F (18 - 30° C)	50 - 150 °F (10 - 66° C)	60 - 80° F (15 - 26° C)

The shelf life will be 12 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 **LPA 2800** containers.

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

**LPA 2800** 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	2.7-2.9 lbs./ft <sup>3</sup>
Closed Cell Content:	ASTM D-2856 90 min.	>90%
Tensile Strength:	ASTM D-1623 60 min.	75-85 psi
Water Absorption:	ASTM D-2842 (1.0 max per volume)	.44
Water Vapor Permeability @ 74°F, perm inch :	ASTM E-96 2.5 max	1.14 @ 1"
Dimensional Stability: 28 days at 158°F, 98%RH	ASTM D-2126	1.20

### Credentials/Certifications

- Underwriters Laboratories Inc. File R14353
- ASTM E-84 Flame Spread Index  $\leq 75$ ; Smoke Development  $\geq 500$
- FM Global 4880/4470
- Florida Building Code Approval #11066
- Dade County Approval
- NOA#10-0513.01 LT. WT. Concrete
- 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](http://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-** Water, Carbon Dioxide, Foam or Dry Powder

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