



# FOAMLOK™ LPA 100

## TECHNICAL BULLETIN

### SPRAY POLYURETHANE FOAM ADHESIVE

#### FREQUENTLY ASKED QUESTIONS

**Q. What is LPA-100 Roofing Adhesive?**

A. FOAM-LOK LPA -100 roofing adhesive is a two component, water blown, spray and Bead applied roofing adhesive for attachment of insulation and barrier/recover boards over structural concrete, metal decks and existing Built-Up roof systems.

**Q. How is the LPA-100 roofing adhesive processed?**

A. The LPA-100 roof adhesive is applied with a Graco E-10 reactor adhesive spray equipment or any standard proportioning equipment which is capable of supplying the material at a 1:1 ratio. The machine must be capable of heating the material to a minimum of 115 degrees F, and supplying a pressure during application of 500 PSI minimum.

**Q. What are the different methods of application?**

A. There are two methods of application for the LPA-100 roofing adhesive.

1. Full coverage application
2. Bead application

**Full Coverage Application:** When using the full coverage application, the material should be applied in a manner resulting in a continuous film of approximately 1/8" in thickness. The placement of the insulating board should occur approximately 30 seconds after application of the LPA-100 adhesive.

**Bead Application:** Beads should be applied in a manner resulting in a 3/4" wide bead spaced at 12" O.C. Placement of the board should occur 30 seconds after application of the bead.

**Note:** A "bead application adaptor" will be required for this application. Contact your local Huntsman Building Solutions representative for information regarding the adaptor.

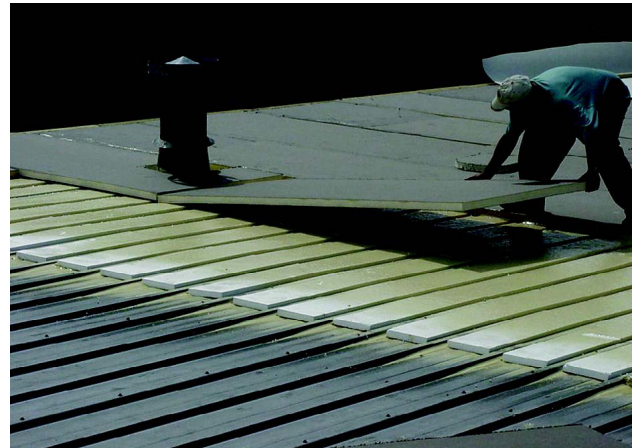
**Q. Are there other compatible roof decks and substrates where the LPA-100 roofing adhesive can be used?**

A. Yes. However, Huntsman Building Solutions has not yet performed testing on these substrates. They are as follows: Lightweight Concrete, Cementitious wood fiber (tectum), Modified Bitumen cap sheet and gypsum planks.

**Q. What are some important application features of the LPA -100 roofing adhesive?**

A. Some important features are as follows:

- No structural deck damage caused by mechanical fasteners.
- No extensive set-up and breakdown time.
- Rapid application resulting in increased production rates.
- Continuous weight-in and walk-in of insulation boards not required.
- No fasteners back-out during deck movements.
- No damage caused to deck when removing fasteners during re-roof
- No offensive asphalt fumes.
- No potential burns to workers.
- No fear of drilling through electrical conduits or chipping or cracking of concrete.



**Q. Are there any limitations associated with the LPA-100 roofing adhesive?**

A. There are limitations and the limitations should be followed in strict accordance with Huntsman Building Solutions specifications.

The limitations are as follows:

- Polyisocyanurate insulation boards cannot be larger than 4' x 4'. Multiple layers of boards should follow the "staggered joint method". Compatible insulation other than Polyisocyanurate could be 4'x8' in size.
- LPA-100 is not recommended for use on wet surfaces.
- LPA-100 is not recommended for use on dirty or grease laden surfaces.
- LPA -100 is not recommended for use on any roof deck that shows signs of deterioration or structural failures.
- LPA-100 is not recommended for use during inclement weather.
- LPA-100 is not recommended for application when substrate or ambient temperatures are below 40° F.
- LPA-100 is not recommended for use after the expiration date.

Some comparative production rates for hourly application of LPA-100 roofing adhesive. This information is not to be used for estimating purposes. Crew size and experience will dictate the final production rates for the contract

Using a crew size of 3 men – 2 men installing boards and 1 man applying LPA-100

.48 minutes to install 1 board = 16 SF

Therefore in 60 minutes crew will install 125 pieces of 4'x4' board = 2,000 SF

Production Rate = 2,000 SF per hour with an adhesive application rate of 1 gal per 100 SF

**Fasteners into Steel Deck – No Adhesive**

4'x8' insulation board using 16 fasteners per board

Crew will install 1 board every 1.5 minutes = 40 boards/hour

40 boards = 40 x 32 SF = 1280 SF

Production rate = 1,280 SF per hour

**Fasteners into concrete deck – No Adhesive**

4' x 8' insulation board using 16 fasteners per board

Crew will install one board every 5 minutes = 12 board per hour

12 boards = 12x 32 SF = 384 SF per hour

Production rate = 384 SF per hour

**Note:** Application rate of the LPA-100 roofing adhesive will vary based on surface roughness and profile of underlying substrate