



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**LAPOLLA Industries, Inc.
15402 Vantage Parkway East
Suite 322
Houston, TX 77032**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Spray Polyurethane Foam – Foam Lok LPA 2500, 2800, 3000 over Concrete Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This revises NOA# 08-0402.05 and consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.



**NOA No.: 09-0610.03
Expiration Date: 06/12/13
Approval Date: 03/17/10
Page 1 of 7**

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Spray Applied Polyurethane Roof System
Materials: Polyurethane
Deck Type: Concrete
Maximum Design Pressure: -502.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Foam-LOK LPA 2500	2.5 lbs/ft ³ density	TAS 110	Polyurethane spray applied foam that utilizes an HFC blowing agent intended for roofing applications.
Foam-LOK LPA 2800	2.8 lbs/ft ³ density	TAS 110	Polyurethane spray applied foam that utilizes an HFC blowing agent intended for roofing applications.
Foam-LOK LPA 3000	3.0 lbs/ft ³ density	TAS 110	Polyurethane spray applied foam that utilizes an HFC blowing agent intended for roofing applications.
Therm-O-Flex TF 1000 Series Elastomeric Roof Coating	N/A	ASTM D6083	A premium quality, fluid applied elastomeric roof coating.
RCS-5000 Series Restoration Coatings	N/A	ASTM D6083	A premium quality, fluid applied elastomeric roof coating.
Therm-O-Prime	N/A		A single component, water soluble acrylic emulsion primer to prepare Galvanized Metal, Concrete, Asphalt Substrates and Scarified Foam for new SPF installations.

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>	<u>Manufacturer</u>
Any Miami-Dade County Approved Roof Coating	N/A	As Required by Miami-Dade County PCA	Roof coating for application over polyurethane spray applied foam.	Generic. (with current PCA)
GAFGLAS [®] Ply 4	39.37" (1 meter) wide	ASTM D 2178	Type IV asphalt impregnated glass felt with asphalt coating.	GAF Materials Corp.
RUBEROID [®] SBS Heat-Weld [™] Granule	1 meter (39.37") wide	ASTM D-6164	Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.	GAF Materials Corp.



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI Construction Materials Technologies	LPII-007-02-01	TAS 110	01/27/10
PRI Construction Materials Technologies	LPII-008-02-01	TAS 110	01/27/10
PRI Construction Materials Technologies	LPII-005-02-01	TAS 110	06/12/07
PRI Asphalt Technologies	LPII- 002-02-01	ASTM D 6083/TAS 114-H	10/19/05
Underwriters Laboratories	07NK08120	UL 790	07/16/07
Underwriter Laboratories, Inc.	R14353	Fire Classification	06/26/05
Factory Mutual Research Corp.	3023796	Class 4470	10/02/05
Atlantic & Caribbean Roof Consulting, LLC	07-060	TAS 114-D	10/22/07
	07-061	TAS 114-D	10/16/07
	08-001	TAS 114-D	01/22/08
	08-060	TAS 114-D	11/24/08



APPROVED ASSEMBLIES:

- Deck Type 3:** Concrete
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(1):** Sprayed polyurethane foam covered with an Approved Miami-Dade County roof coating applied directly onto the primed concrete deck.

All General and System Limitations apply.

Surface

Preparation: Deck shall be primed with Therm-O-Prime in accordance with LAPOLLA Industries, Inc. recommendations, and shall be free of loose dirt, grease, oil or other contaminants prior to priming or foam application. Remove loose dirt or debris by use of compressed air, vacuum or brooming. No washing shall be permitted. Oil, grease, release agents or other contaminants shall be removed with proper cleaning solutions.

Primers shall be applied in accordance with their manufacturer's instructions. All primers must be thoroughly dry and cured prior to foam application.

All joint openings in concrete decks that exceed 1/4 inch shall be grouted or caulked.

Polyurethane Foam Application:

The polyurethane foam shall be applied uniformly over the entire surface of the concrete deck at the specified thickness in compliance with the requirements set forth Roofing Application Standard RAS 109. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.

Protective Coating Application:

Shall apply a Miami-Dade County approved roof coating with a current NOA applied in accordance with the guidelines listed in the NOA.

Polyurethane foam surface shall be free of moisture, dust, debris, oils, tars, grease or other materials that will impair adhesion of the protective coverings. Any damage or defects to the polyurethane foam surface shall be repaired prior to the coating application. The coating shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the coatings, the polyurethane foam shall be inspected for UV degradation.

Maximum Design Pressure:

- 355 psf., with Foam-LOK LPA 2500 or Foam-LOK LPA 2800
- 502.5 psf., with Foam-LOK LPA 3000



- Deck Type 3:** Concrete
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(2):** Sprayed polyurethane foam covered with an Approved Miami-Dade County roof coating applied onto a smooth surfaced fully adhered secondary roof system.

All General and System Limitations apply.

Surface

Preparation: Deck shall be primed with Therm-O-Prime in accordance with LAPOLLA Industries, Inc. recommendations, and shall be free of loose dirt, grease, oil or other contaminants prior to priming or foam application. Remove loose dirt or debris by use of compressed air, vacuum or brooming. No washing shall be permitted. Oil, grease, release agents or other contaminants shall be removed with proper cleaning solutions.

Primers shall be applied in accordance with their manufacturer's instructions. All primers must be thoroughly dry and cured prior to foam application.

All joint openings in concrete decks that exceed 1/4 inch shall be grouted or caulked.

Secondary System: Two or more plies of GAFGLAS® PLY 4® ply sheets adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to the primed concrete deck.

Polyurethane Foam Application:

The polyurethane foam shall be applied uniformly over the entire surface of the secondary roof system at the specified thickness in compliance with the requirements set forth Roofing Application Standard RAS 109. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.

Protective Coating Application:

Shall apply a Miami-Dade County approved roof coating with a current NOA applied in accordance with the guidelines listed in the NOA.

Polyurethane foam surface shall be free of moisture, dust, debris, oils, tars, grease or other materials that will impair adhesion of the protective coverings. Any damage or defects to the polyurethane foam surface shall be repaired prior to the coating application. The coating shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the coatings, the polyurethane foam shall be inspected for UV degradation.

Maximum Design Pressure:

-447.5 psf., with Foam-LOK LPA 2500, 2800 or 3000



- Deck Type 3:** Concrete
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(3):** Sprayed polyurethane foam covered with an Approved Miami-Dade County roof coating applied onto a granule surfaced fully adhered secondary roof system.

All General and System Limitations apply.

Surface

Preparation: Deck shall be primed with Therm-O-Prime in accordance with LAPOLLA Industries, Inc. recommendations, and shall be free of loose dirt, grease, oil or other contaminants prior to priming or foam application. Remove loose dirt or debris by use of compressed air, vacuum or brooming. No washing shall be permitted. Oil, grease, release agents or other contaminants shall be removed with proper cleaning solutions.

Primers shall be applied in accordance with their manufacturer's instructions. All primers must be thoroughly dry and cured prior to foam application.

All joint openings in concrete decks that exceed 1/4 inch shall be grouted or caulked.

Secondary System: Two or more plies of GAFGLAS® PLY 4® ply sheets adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to the primed concrete deck.

RUBEROID® SBS Heat-Weld™ Granule applied according to manufacturer's application instructions to the hot mopped ply sheets.

Polyurethane Foam Application:

The polyurethane foam shall be applied uniformly over the entire surface of the secondary roof system at the specified thickness in compliance with the requirements set forth Roofing Application Standard RAS 109. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.

Protective Coating Application:

Shall apply a Miami-Dade County approved roof coating with a current NOA applied in accordance with the guidelines listed in the NOA.

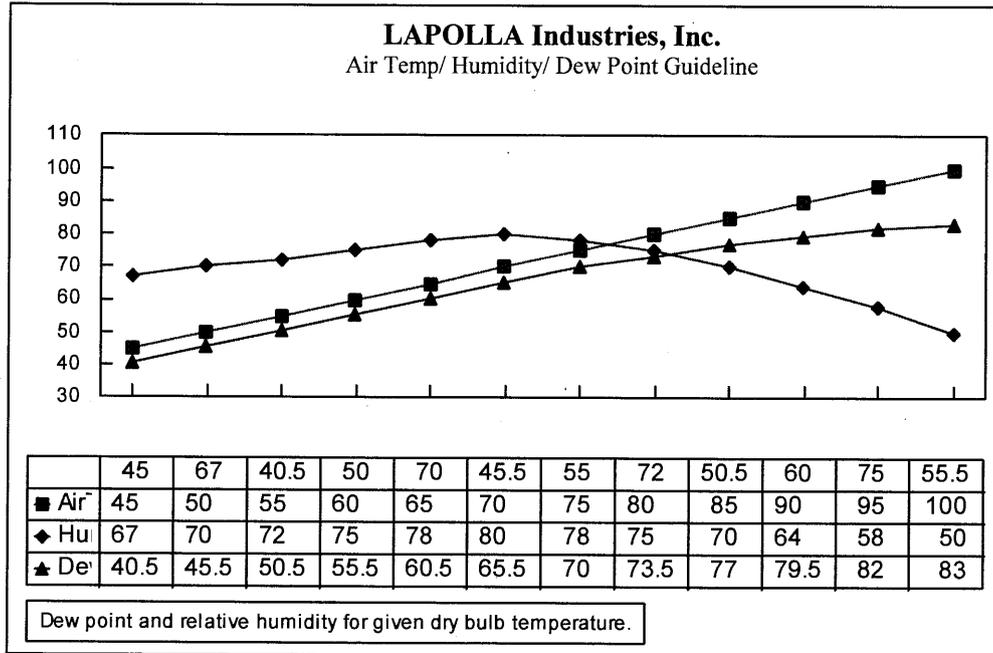
Polyurethane foam surface shall be free of moisture, dust, debris, oils, tars, grease or other materials that will impair adhesion of the protective coverings. Any damage or defects to the polyurethane foam surface shall be repaired prior to the coating application. The coating shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the coatings, the polyurethane foam shall be inspected for UV degradation.

Maximum Design Pressure:

-502.5 psf., with Foam-LOK LPA 2500, 2800 or 3000



**TABLE 1
 AMBIENT HUMIDITY APPLICATION LIMITS
 SPRAYED POLYURETHANE FOAM**



GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product
2. Spray polyurethane foam shall not be sprayed when ambient temperature is within 5 degrees of the dew point. Ambient humidity applications limits shall be as listed in Table 1 herein. Contractor shall monitor and record environmental conditions in the Job Log in compliance with RAS 109. Job Log shall be maintained at the job site and accessible to The Building Official.
3. Flashings and waterproof coverings for expansion joints shall be of compatible materials and in accordance with LAPOLLA Industries, Inc. published literature.
4. Miscellaneous materials such as adhesives, elastomeric caulking compounds, metal, vents and drains shall be a composite part of the roof system and shall be compatible with the foam and coating.
5. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and the wind load requirements of applicable building code.
6. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).

END OF THIS ACCEPTANCE

