



MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Flexible Products Co.
2050 N. Broadway
Joliet

IL 60435-3187

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT SECTION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

Your application for Product Approval of:

Premium 241/Textthane 233 Spray Applied Polyurethane Foam Roof System

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing.

If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Acceptance No.: 99-1119.01

Expires: 01/07/2003

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director

Miami-Dade County
Building Code Compliance Office

Approved: 01/07/2000

1 of 8



Flexible Products Co.

ACCEPTANCE No. : 99-1119.01

Applicant:

Flexible Products Company
9721 Highway 290 East
Austin, TX 78724

Product Control No.: **99-1119.01**

Approved: **January 7, 2000**

Expires: **January 7, 2003**

Category: Roofing System
Sub-Category: Foam / Coating
Type: Polyurethane Foam / Acrylic Coating
Sub-Type: Spray Applied / Liquid Applied

**TRADE NAMES OF PRODUCTS MANUFACTURED OR
LABELED BY APPLICANT**

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Premium 241 Spray Foam System	N/A	PA 110	Polyurethane spray applied foam that utilizes an HCFC blowing agent intended for roofing applications.
Texthane 233 Spray Foam System	N/A	PA 110	Polyurethane spray applied foam that utilizes an HCFC blowing agent intended for roofing applications.

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>	<u>Manufacturer</u>
Super Roof Mastic	27 mil. thickness	PA 110	Elastomeric acrylic coating for application over polyurethane spray applied foam.	American Paints, Inc. (with current PCA)

EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Center for Applied Engineering, Inc.	MTS 25-7100	PA 110	01/12/95
Underwriters Laboratories Inc.	92NK7767 93NK3577	UL 790	06/18/92 04/26/94
Underwriters Laboratories Inc.	R12134 (N)	UL 1897	12/09/93
Trinity Engineering Inc.	4830.06.96	PA 114	07/01/96



Frank Zuloaga, RRC
Roofing Product Control Examiner

APPROVED SYSTEMS

- Deck Type 2:** Steel
- Deck Description:** 18 to 22 gage steel
- System Type:** Sprayed polyurethane foam covered with an elastomeric acrylic coating.

All General and System Limitations apply.

Surface

Preparation: Metal surfaces should be primed according to Flexible Products Company and coating manufacturers recommendations. Primer shall be thoroughly cured prior to application of foam.

For ferrous metal, remove loose rust and unsound primer from shop-primed iron and steel surfaces by scraping, wire brushing or sandblasting. Prime according to Flexible Products Company and coating manufacturers recommendations. For non-ferrous metals, clean and prime aluminum, copper and stainless steel surfaces as recommended by Flexible Products Company.

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

Polyurethane Foam Application:

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

Protective Coating Application:

American Paints' Super Roof Mastic elastomeric acrylic coating shall be applied in two coats to achieve a minimum dry thickness of 30 mils.

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:

-83 psf.

Maximum Fire Classification:

See General Limitation #1.

Maximum Slope:

See General Limitation #1.



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Deck Type 3: Concrete

Deck Description: 2500 psi structural concrete or concrete plank

System Type: Sprayed polyurethane foam covered with an elastomeric acrylic coating.

All General and System Limitations apply.

Surface

Preparation: Deck shall be primed in accordance with Flexible Products' 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 manufacturers 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 at the specified thickness in compliance with the requirements set forth Miami-Dade County Roofing Application Standard RAS 109. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.

Protective Coating

Application: American Paints' Super Roof Mastic elastomeric acrylic coating shall be applied in two coats to achieve a minimum dry thickness of 30 mils.

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.

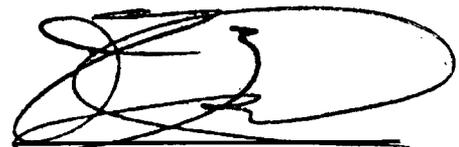
Maximum Design

Pressure: -83 psf.

Maximum Fire

Classification: See General Limitation #1.

Maximum Slope: See General Limitation #1.



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Deck Type 7: Recover

Deck Description: Wood, Steel, Concrete, Asphalt Shingle, Granule Surfaced Modified Bitumen, Smooth Surface BUR, Gravel Surface BUR

System Type: Sprayed polyurethane foam covered with an elastomeric acrylic coating.

All General and System Limitations apply.

Surface

Preparation: For recover applications, existing roof shall be in compliance with Chapter 34 of the South Florida Building Code and Miami-Dade County Roofing Application Standard RAS 109.

Substrate shall be primed in accordance with Flexible Products' recommendations, and shall be free of loose dirt, grease, oil or other contaminants prior to priming or foam application. Remove all 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 the manufacturers instructions. All primers must be thoroughly dry and cured prior to foam application.

Polyurethane Foam Application:

The polyurethane foam shall be applied directly and uniformly over the entire surface at the specified thickness in compliance with the requirements set forth in Miami-Dade County Roofing Application Standard RAS 109. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.

Protective Coating Application:

American Paints' Super Roof Mastic elastomeric acrylic coating shall be applied in two coats to achieve a minimum dry thickness of 30 mils.

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:

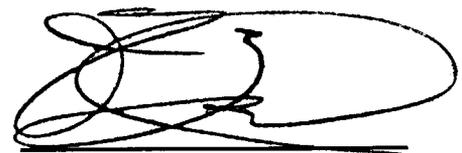
-83 psf

Maximum Fire

Classification: See General Limitation #1.

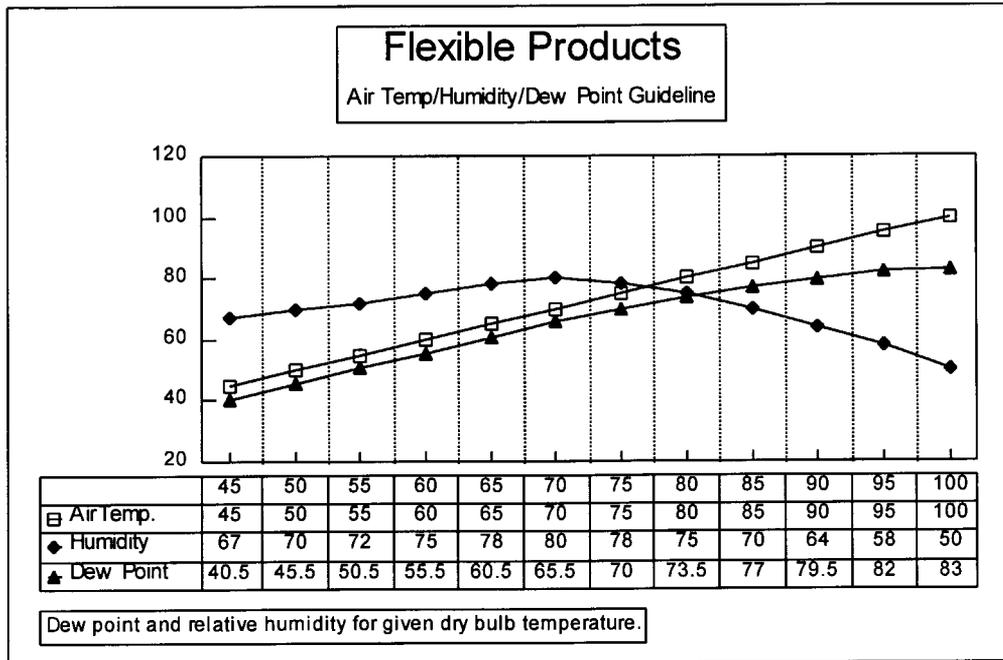
Maximum Slope:

See General Limitation #1.



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**AMBIENT HUMIDITY APPLICATION LIMITS
SPRAYED POLYURETHANE FOAM**



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RECOVER SYSTEM LIMITATIONS

1. Existing low slope roof systems shall be tested for uplift resistance in compliance with Miami-Dade County Protocol PA 124 to the calculated design pressures of the field, perimeter and corner areas, determined in compliance with Chapter 23 of the South Florida Building Code.
2. The moisture content of an existing roof system shall be in compliance with **Chapter 34** of the South Florida Building Code.
3. Lightning rods shall be masked prior to foaming. Lightning rod cables shall not be embedded in the polyurethane foam and should be removed prior to foaming. Electrical and mechanical conduits should be relocated or raised above the finished roof surface.

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 are listed in Table 1 of this Notice of Acceptance. 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. Adhesion testing of foam to substrate and coating to foam shall be performed in compliance with Miami-Dade County Applications Standard PA 109(A) as required in Sections 7 and 18 of Miami-Dade County Roofing Application Standard RAS 109.
4. Flashings and waterproof coverings for expansion joints shall be compatible with Flexible Products Company foam and American Paints Inc. coating.
5. 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.
6. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Miami-Dade County Roofing Application Standard RAS 111 and the wind load requirements of Chapter 23 of the South Florida Building Code.
7. 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).



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**Flexibel Products Company
9721 Highway 290 East
Austin, TX 78724**

**ACCEPTANCE NO.: 99-1119.01
APPROVED: January 7, 2000
EXPIRES: January 7, 2003**

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

- 1 Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
- 2 Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
- 3 Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
- 4 Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
- 5 Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process;
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
- 6 The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
- 7 A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The copies need not be resealed by the engineer.
- 8 Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- 9 This Acceptance contains pages 1 through 8.

END OF THIS ACCEPTANCE



Frank Zuloaga, RRC
Roofing Product Control Examiner