



**BUILDING CODE COMPLIANCE OFFICE**  
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**PRODUCT CONTROL DIVISION**  
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**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**Polythane Systems, Inc.**  
**P. O. Box 1452**  
**Spring, TX 77383-1452**

Your application for Notice of Acceptance (NOA) of:

**SH200 Polyurethane Foam & Evercoat 500/510 Coatings**

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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time 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 by 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.: 00-0512.13**  
**EXPIRES: 08/10/2003**

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 Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

**APPROVED: 08/10/2000**

**ROOFING SYSTEM APPROVAL**

Category: Roofing  
Sub-Category: Polyurethane Foam / Acrylic Coating

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

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Polythane PSI SH200-30	N/A	PA 110	Polyurethane spray applied foam that utilizes a HCFC blowing agent intended for roofing applications.
Evercoat 500/510	27 mil. thickness	PA 129	Elastomeric acrylic coating for application over polyurethane spray applied foam.
Evercoat 500	N/A	PA 129	White top base coat of 100% elastomeric acrylic latex coating for spray applied polyurethane foam.
Evercoat 510	N/A	PA 129	Gray base coat of 100% elastomeric acrylic latex coating for spray applied polyurethane foam.
Evercoat 100 Primer	N/A	N/A	Single component water based general purpose primer for spray applied polyurethane foam to various substrates.
Evercoat 102 Primer	N/A	N/A	Single component water based general purpose primer for spray applied polyurethane foam to various substrates.

**EVIDENCE SUBMITTED:**

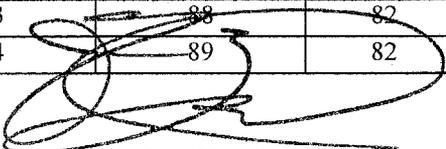
<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Trinity Engineering, Inc.	#4680.11.95-1	PA 114 Appendix "D"	11/29/95
Underwriters Laboratories Inc.	R12134 (N)	UL 1897	12/09/93
Underwriters Laboratories Inc.	90NK28403	UL 790	03/22/91
Center for Applied Engineering, Inc.	257497	PA 129 <del>PA 143</del>	06/06/96

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Celotex Corporation Testing Services	257994	ASTM E 96 ASTM D 1623 ASTM C 273	04/23/97
Celotex Corporation Testing Services	528639	ASTM D 2842 ASTM D 2126 ASTM D 1621	10/12/98
Celotex Corporation Testing Services	520067	ASTM D 6083 ASTM D 522	11/11/98
Celotex Corporation Testing Services	520067	ASTM D 6083 ASTM D 2370	11/25/98
Celotex Corporation Testing Services	520067	ASTM D 6083 ASTM D 4798	05/10/99
Celotex Corporation Testing Services	520596	ASTM D 6083 ASTM C 794	04/17/00

**AMBIENT HUMIDITY APPLICATION LIMITS SPRAYED POLYURETHANE FOAM:**

**Table 1**

Maximum Wet Bulb and Relative Humidity for a Given Dry Bulb Reading					
Dry Bulb Temp. (°F)	Wet Bulb Temp. (°F)	R.H. (%)	Dry Bulb Temp. (°F)	Wet Bulb Temp. (°F)	R.H. (%)
45	43	81	73	69	82
46	44	81	74	70	82
47	45	81	75	71	82
48	46	81	76	72	82
49	47	81	77	73	82
50	48	81	78	73	82
51	48	81	79	74	82
52	49	81	80	75	82
53	50	81	81	76	82
54	51	81	82	77	82
55	52	81	83	78	82
56	52	81	84	79	82
57	53	81	85	80	82
58	54	81	86	81	82
59	55	81	87	82	82
60	56	81	88	83	82
61	57	81	89	84	82
62	58	82	90	85	82
63	59	82	91	86	82
64	60	82	92	87	82
65	61	82	93	88	82
66	62	82	94	89	82

  
 Frank Zuloaga, RRC  
 Roofing Product Control Examiner

Maximum Wet Bulb and Relative Humidity for a Given Dry Bulb Reading						
Dry Bulb Temp. (°F)	Wet Bulb Temp. (°F)	R.H. (%)		Dry Bulb Temp. (°F)	Wet Bulb Temp. (°F)	R.H. (%)
67	63	82		95	90	82
68	64	82		96	91	82
69	65	82		97	92	82
70	66	82		98	93	82
71	67	82		99	94	82
72	68	82		100	95	82

**NOTE:** Spray polyurethane foam shall not be sprayed when environmental conditions are beyond the temperature and relative humidity limits listed in this Table, (see System Limitations 1).



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**APPROVED SYSTEMS:**

- Deck Type 2:** Steel
- Deck Description:** 26 gage steel, Minimum
- System Type:** Sprayed polyurethane foam covered with an elastomeric acrylic coating.

**All General and System Limitations apply.**

**Deck Requirements:** Steel decking and attachment thereof shall be in compliance with Chapter 28 of the South Florida Building Code and Section 6.2 of Miami-Dade County Roofing Application Standard RAS 109.

**Surface Preparation:** Metal surfaces should be primed with epoxy primer or Evercoat 100 or 102 Primer. 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 PSI recommendations. For non-ferrous metals, clean and prime aluminum, copper and stainless steel surfaces as recommended by PSI.

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:** Evercoat 500/510 elastomeric acrylic coating shall be applied to achieve a minimum dry thickness of 27 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 base coat shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the base coat, the polyurethane foam shall be inspected for UV degradation.

**Maximum Design Pressure:** -83 psf (See General Limitation #9)

**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.**

**Deck Requirements:** Concrete decks shall be in compliance with Chapter 25 of the South Florida Building Code and Section 6.2 of Miami-Dade County Roofing Application Standard RAS 109.

**Surface Preparation:** Deck 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 the 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 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:** Evercoat 500/510 elastomeric acrylic coating shall be applied to achieve a minimum dry thickness of 27 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 base coat shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the base coat, the polyurethane foam shall be inspected for UV degradation.

**Maximum Design Pressure:** -83 psf (See General Limitation #9)

**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, Granule Surfaced Modified Bitumen, Smooth Surface BUR  
**System Type:** Sprayed polyurethane foam covered with an elastomeric acrylic coating.

**All General and System Limitations apply.**

**Deck Requirements:** Deck and attachment thereof shall be in compliance with the relevant decking Chapter of the South Florida Building Code.

**Surface Preparation:** For recover applications, existing roof shall be in compliance with Section 3401.8 of the South Florida Building Code and Section 7 of Miami-Dade County Roofing Application Standard RAS 109.

Substrate 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 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 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:** Evercoat 500/510 elastomeric acrylic coating shall be applied to achieve a minimum dry thickness of 27 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 base coat shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the base coat, the polyurethane foam shall be inspected for UV degradation.

**Maximum Design Pressure:** -83 psf; (See General Limitation #9).

**Maximum Fire Classification:** See General Limitation #1.

**Maximum Slope:** See General Limitation #1.



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- 1 Spray polyurethane foam shall not be sprayed when environmental conditions are beyond the temperature and relative humidity limits listed in Table 1 of this approval. Contractor shall monitor and record environmental conditions in job log in compliance with PA 109. Job log shall be maintained at the job site and accessible to The Building Official.
- 2 Adhesion testing of foam to substrate and coating to foam shall be performed in compliance with Miami-Dade County Roofing Application Standard RAS 109 (A) as required in Sections 7 and 17 of Miami-Dade County Roofing Application Standard RAS 109.

**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 Insulation may be applied in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
- 3 All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Miami-Dade County Roofing Application Standard TAS 111 and the wind load requirements of Chapter 23 of the South Florida Building Code.
- 4 The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, corners). No 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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**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 9.

**END OF THIS ACCEPTANCE**



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