



MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Kirsch Building Products, LLC.
1464 Madera St. #387
Simi Valley, CA 93065

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: Sharkskin Roof Underlayments

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 new NOA consists of pages 1 through 6.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 09-1123.02
Expiration Date: 07/14/15
Approval Date: 07/14/10
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ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: Polypropylene

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> |
|--------------------------|-------------------|---------------------------------------|---|
| Sharkskin Comp™ | 48" x 250' | ASTM D226, Type I or II | A multi-layer laminated roof underlayment comprised of a high-strength woven polypropylene base with a UV & antioxidant protection bond layer and a slip-resistant top layer. |
| Sharkskin Ultra™ | 48" x 250' | ASTM D226, Type I or II TAS 104 | A multi-layer laminated roof underlayment comprised of a high-strength woven polypropylene core with a UV & antioxidant protection bond layer to both sides and a slip-resistant top layer. |
| Sharkskin Ultra Radiant™ | 48" x 250' | ASTM D226, Type I or II | A multi-layer laminated roof underlayment comprised of a high-strength woven polypropylene core with a reflective barrier on the underside and a UV & antioxidant protection bond layer on both sides and a slip-resistant top layer. |
| Sharkskin Ultra SA™ | 48" x 125' | TAS 103 | A multi-layer laminated roof underlayment comprised of a high-strength woven polypropylene core between two layers of UV & antioxidant protection bond and a self-adhering underside and a slip-resistant top layer. |

EVIDENCE SUBMITTED:

| <u>Test Agency</u> | <u>Test Identifier</u> | <u>Test Name/Report</u> | <u>Date</u> |
|--------------------|------------------------|-------------------------|-------------|
| Trinity ERD | K6550.08.07 | TAS 114-C | 08/20/07 |
| | K0810.12.05-R1 | ASTM D 1623 (AC152) | 10/06/09 |
| | K3140.05.10 | ASTM D 1623 | 05/18/10 |
| | K6540.07.07-R2 | ASTM D 226 | 10/08/09 |
| | K6540.03.08-1 | TAS 103/ TAS 117-B | 03/10/2008 |
| | K6540.03.08-2 | TAS 104/ TAS 117-B | 03/10/2008 |
| | K9210.05.08-R1 | TAS 103/ TAS 104 | 11/13/09 |
| | | ASTM D 5147/ASTM D 4798 | |



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APPROVED SHARKSKIN SYSTEM ASSEMBLIES:

Deck Type 1: Wood

Deck Description: 1⁹/₃₂" or greater plywood or wood plank

System E(1): Base sheet mechanically fastened to deck, subsequent cap membrane self-adhered.

All General and System Limitations shall apply.

Base sheet: One or more plies Sharkskin Ultra applied in single coverage method with minimum 4" horizontal laps and minimum 6" vertical laps applied as specified below.

Fastening: Mechanically fastened with approved nails & tin caps spaced 6" o.c. at the 4" horizontal overlaps and 10" o.c. in a grid pattern having three, equally spaced, staggered rows in the field of the sheet.

Ply Sheet: (Optional) Sharkskin Ultra SA, self-adhered with minimum 2" horizontal overlaps and minimum 6" vertical overlaps. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release liner as the membrane is applied.

Membrane: Sharkskin Ultra SA, self-adhered with minimum 2" horizontal laps and minimum 6" vertical laps. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release liner as the membrane is applied.

When used in Tile roof systems the cap sheet shall be back nailed to deck with approved annular ring shank nails and tin caps at a maximum 12" o.c. at the side laps and 6" o.c. at the end laps. No nails or tin caps shall be exposed

Surfacing: Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA. For foam-adhered tile roof assemblies, approved use is limited to Polyfoam tile foam adhesive.



Deck Type 1: Wood
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
System E(2): Base sheet mechanically fastened to deck.

All General and System Limitations shall apply.

Base sheet: One or more plies Sharkskin Comp® or Sharkskin Ultra® applied as specified below:

Fastening: For slopes 3.5 : 12 (16.2°) or greater:
Shall be applied in single coverage method, overlapping each course with a minimum 4" horizontal lap. Mechanically fastened with approved nails & tin caps spaced 6" o.c. at the horizontal laps and 10" o.c. in a grid pattern having three, equally spaced, staggered rows in the field of the sheet.

For slopes 2.5:12 (11.8°) to 3.5:12 (16.2°):

Shall be applied in a double coverage method, overlapping each course with a minimum 24" horizontal lap. Mechanically fastened with approved nails & tin caps spaced 6" o.c. within 4" of the bottom edge of the horizontal laps and 10" o.c. in one staggered row in the field of the sheet.

Surfacing: Approved for asphalt shingle, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.

Deck Type 2: Wood
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
System E(3): Base sheet mechanically fastened to deck.

All General and System Limitations shall apply.

Base sheet: One or more plies Sharkskin Ultra® applied as specified below:

Horizontal Battens: Fastening: For slopes 3 : 12 (14°) or greater:
Sharkskin Ultra shall be applied in single coverage method, overlapping each course with a minimum 4" horizontal lap. Mechanically fasten Sharkskin Ultra with approved nails & tin caps spaced 6" o.c. at the horizontal laps and 10" o.c. in a grid pattern having three, equally spaced, staggered rows in the field of the sheet. Install battens over Sharkskin Ultra in accordance with RAS 119.

Counter Battens: Fastening: For slopes 3 : 12 (14°) or greater:
Install vertical battens in accordance with RAS 118. Sharkskin Ultra shall be laid horizontally in single coverage method, parallel to the eave with minimum 4-inch horizontal laps and minimum 6-inch vertical laps over the vertical battens. Mechanically fasten Sharkskin Ultra with approved nails & tin caps spaced 6" o.c. at the horizontal laps and 10" o.c. in a grid pattern having three, equally spaced, staggered rows in the field of the sheet. Horizontal laps shall be sealed with butyl-based tape or other material specifically approved by Miami-Dade Product Control & Kirsch Building Products. Vertical laps shall be minimum 6-inch wide and shall break over a vertical batten to allow water to run away from the center point of the vertical batten.

Surfacing: Approved for non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.



Deck Type 1: Wood
Deck Description: 19/32" or greater plywood or wood plank
System E(4): Base sheet mechanically fastened to deck.

All General and System Limitations shall apply.

Base sheet: One or more plies Sharkskin Ultra Radiant® applied as specified below:

Horizontal Battens: Fastening: For slopes 3 : 12 (14°) or greater:

Sharkskin Ultra Radiant® shall be applied with the reflective side up in single coverage method, overlapping each course with a minimum 4" horizontal lap. Mechanically fasten Sharkskin Ultra with approved nails & tin caps spaced 6" o.c. at the horizontal laps and 10" o.c. in a grid pattern having three, equally spaced, staggered rows in the field of the sheet. Install battens over Sharkskin Ultra in accordance with RAS 119.

Counter Battens: Fastening: For slopes 3 : 12 (14°) or greater:

Install vertical battens in accordance with RAS 118. Sharkskin Ultra Radiant® shall be laid horizontally with the reflective side up in single coverage method, parallel to the eave with minimum 4-inch horizontal laps and minimum 6-inch vertical laps over the vertical battens. Mechanically fasten Sharkskin Ultra Radiant® with approved nails & tin caps spaced 6" o.c. at the horizontal laps and 10" o.c. in a grid pattern having three, equally spaced, staggered rows in the field of the sheet. Horizontal laps shall be sealed with butyl-based tape or other material specifically approved by Miami-Dade Product Control & Kirsch Building Products. Vertical laps shall be minimum 6-inch wide and shall break over a vertical batten to allow water to run away from the center point of the vertical batten.

Surfacing: Approved for non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.

Deck Type 2: Steel
Deck Description: Minimum 18-22ga., Type-B, 33ksi steel deck
System E(5): Base sheet mechanically fastened to deck.

All General and System Limitations shall apply.

Base sheet: One or more plies Sharkskin Ultra applied in single coverage method with minimum 4" horizontal laps and minimum 6" vertical laps applied as specified below.

Fastening: Sharkskin Ultra is attached to the roof deck with Miami-Dade listed corrosion resistant #10, #12 or #14 screws and metal stress plates. Screws shall engage the top flute of the steel deck and be of sufficient length for minimum 3/4-inch penetration. Screws & plates spaced 6" o.c. at all laps and three staggered rows 10" o.c. in the field of the roll or as specified within the roof system approval.

Surfacing: Approved for non-structural metal roofing assemblies as specified within the Roof System NOA.



GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance.
2. This acceptance is for prepared roofing applications. Minimum deck requirements shall be in compliance with applicable building code. Sharkskin Roof Underlayments shall be installed in strict compliance with applicable Building Code.
3. All Sharkskin Underlayments shall be applied to a smooth, clean and dry surface with deck free of irregularities. Deck shall be fastened in strict compliance with applicable Building Codes. All nails in the deck shall be carefully checked for protruding heads. Re-fasten any loose decking panels. Sweep the deck thoroughly to remove any dust and debris prior to application
4. Sharkskin Ultra may be used in asphaltic shingle, direct-deck/batten wood shake & shingle, direct-deck/batten quarry slate or direct-deck/batten non-structural metal roof applications.
5. Sharkskin Comp may be used in asphaltic shingle, direct-deck wood shake & shingle, direct-deck quarry slate or direct-deck non-structural metal roof applications.
6. Sharkskin Ultra Radiant may be used in battened non-structural metal roof, battened wood shakes & shingles or battened slate roof applications. Sharkskin Ultra Radiant shall not be used as a tile, asphalt shingle, direct-deck wood shakes & shingle, direct-deck non-structural metal or direct-deck slate underlayment.
7. Sharkskin Comp or Sharkskin Radiant shall not be used as a roof tile underlayment or as part of a roof tile underlayment system.
8. The Sharkskin Ultra and Sharkskin Ultra SA two-ply underlayment system may be used in asphalt shingle, mechanically fastened tile, foam-adhered tile, wood shake & shingle, quarry slate or non-structural metal roof applications.
9. The standard maximum roof pitch for The Sharkskin Ultra and Sharkskin Ultra SA two-ply underlayment system shall be 5:12 for flat tile and profiled tiles with lugs. A maximum of 10 tiles per stack are allowed when loading tile on the underlayment.
10. Sharkskin Roof Underlayments shall not be applied over an existing roof system as a recover application but may be applied as specified herein as part of an approved underlayment system.
11. Sharkskin Roof Underlayments shall not be left exposed as a temporary roof for longer than 180 days of application.
12. Sharkskin Roof Underlayments are components used in roof systems assemblies. Roof system assemblies are approved under specific Notice of Acceptance. Refer to Prepared Roofing System Product Control Notice of Acceptance for listed approval of this product with the specific prepared roofing assembly.
13. Sharkskin Roof Underlayments may be used with any approved roof covering Notice of Acceptance listings the Sharkskin product(s) as a component part of an assembly in the Notice of Acceptance. If Sharkskin Roof Underlayments are not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance and fire testing results.
14. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance and applicable Building Code.
15. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, or following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY
APPROVED

END OF THIS ACCEPTANCE

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