

**SECTION 7307 CONCRETE/ CLAY TILE, METAL, SLATE AND ASPHALT
COMPOSITION SELF-ADHERED/ PEEL & STICK ROOF UNDERLAYMENT**

Part 1 – General

1.01 Summary

A. Section Includes:

1. Self-adhered peel & stick roof underlayment system.
2. Provide and install underlayment in compliance with manufacturer's specified installation requirements.

B. Related Sections

1. Section 6100: Rough Carpentry; Roof Sheathing and nailers
2. Section 7620: Sheet Metal Flashings and Trim
3. Section 7320: Concrete/Clay Roof Tile
4. Section: 7610: Architectural Metal Roofing
5. Section: 7317: Real and Synthetic Slate

C. References

1. ICC/ES ACC 188, Roof Underlayments
2. ICC/ES AC 48 Roof Underlayment for Use in Severe Climate Areas
3. ICC/ES AC 152 Adhesive Attachment of Concrete or Clay Roofing Tiles per ASTM 1623
4. Florida Building Code (FBC)
5. 2003 International Building Code (IBC)
6. 2003 International Residential Code (IRC)
7. BOCA National Building Code 1999 (BNBC)
8. 1999 Standard Building Code (SBC)
9. 1997 Uniform Building Code (UBC)
10. Texas Department of Insurance
11. National Roofing Contractors Association
12. Western States Roofing Contractors Association

1.02 Performance Requirements

- A. Provide a self-adhered roof underlayment that provides nail seal-ability per ASTM 1970/ AC 48 from an independent ICC accredited lab.
- B. Provide and install roof underlayment and roof flashing system that does not permit the passage of water and will withstand 12 month UV resistance to sun light.
- C. Provide a self-adhered roof underlayment that has passed the requirements set forth in ICC/ES Report 1708 and Miami/Dade TAS 103.
- D. Provide roof underlayment that has service temperatures between

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-50 degrees F and 280 degrees F.

- E. Provide a roof underlayment that is slip-resistant to work over even in wet conditions.
- F. Provide a self-adhered roof underlayment that is resistant to uplift from high winds.
- G. Provide a self-adhered roof underlayment that does not required primer when installed over concrete, metal or OSB board.
- H. Provide a self-adhered roof underlayment that carries a 50 year warranty.
- I. Provide a self-adhered roof underlayment meeting ASTM ICC/ES AC 152 Adhesive Attachment of Concrete or Clay Roofing Tiles per ASTM 1623.

1.03 Submittals – must comply with Division 1

- A. Product Data: Provide product data sheets for each type of product indicated in this section, including certified product test results.
- B. Shop Drawings: Provide manufacturers standard installation details, certified product test results as applicable to materials, installation instructions and approved shop drawings for the roof system specified.
- C. Provide samples of roof underlayment and associated fasteners for verification of quality.
- D. Sample Warranty

1.04 Quality Assurance

- A. Manufacturer Qualifications: Manufacturer to have ICC/ES and FBC listed reports, Miami/Dade testing per TAS 103 and provide data from independent testing per Slip Resistance; Test Method National Standard of Canada CAN GSB-75.1-M88 or equivalent ASTM test per an approved ICC/ES independent testing company.

Average Coefficient of Friction

Rubber – dry: 0.63
Rubber – wet: 0.51

Leather – dry: 0.48
Leather – wet: 0.50

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- B. The formation or presence of mold or fungi in a building is dependent upon a number of factors including, but not limited to, the presence of spores and nutrient sources, moisture, temperatures, climatic conditions, relative humidity, and heating/ventilating systems and their maintenance and operating capabilities. These factors are beyond the control of Kirsch Building Products LLC (Kirsch) and Kirsch shall not be responsible for any claims, repairs, restoration, or damages relating to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like in any building or in the air, land, or water serving the building.

1.05 Delivery, Storage and Handling

- A. Packing, Shipping, Handling and Unloading: Deliver materials with identification labels intact. Schedule deliveries to avoid construction delays but minimize jobsite storage.
- B. Storage and protection: Store materials protected from exposure to harmful weather conditions and direct sunlight. As recommended by manufacturer, store materials at a temperature between 40 degrees F and 100 degrees (4.4 – 37.8 degrees C). If exposed to lower temperatures restore materials to 40 degree F (4.4 C) minimum temperature before application.

1.06 Warranty

- A. Upon original pre-installation of final roof system, specified underlayment will not materially deteriorate from exposure to sunlight for 12 months.
- B. Upon installation of final roof system, specified underlayment will not allow water to penetrate the roofing substrate due to decomposition beneath the primary roof covering for 50 years.

Part 2 – Products

2.01 Materials

- A. Acceptable Product: Sharkskin Ultra SA™ as manufactured by: Kirsch Building Products LLC, 1464 Madera Road, Suite 387, Simi Valley, CA 93065
Tel: (805) 750-0084 Fax: 805-526-1116
www.sharkskin.us

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B. Substitutions:

- a. Substitutions must fully comply with specified requirements
- b. Refer to section 01630 - Product options and substitutions for substitution request procedures.

C. Physical Properties of Roof Underlayment membrane:

High tensile strength polypropylene woven core fabric, coated on both sides with UV resistant polypropylene coating containing anti-oxidant additive, with slip-resistant non-woven fiber surface embedded in top coating layer. High strength co-polymer adhesive layer on bottom side containing no VOC's, and polypropylene split release liner for safer installation.

2.02 Materials

- A. 100% Polypropylene based
- B. Adhesive to be Co-Polymer with no VOC content

Part 3 Execution

3.01 Examination

- A. Verify that a roof slope of 2:12 or greater exists for proper water shedding.
- B. Determine, with the presence of the installer, that conditions are satisfactory. (i.e. remove sharp objects and debris on roof deck, etc.)
- C. Conflicts resulting from inspection should be resolved prior to underlayment installation.

3.02 Installation

Underlayment shall be installed per printed instruction from the manufacturer and local building code. Overlaps run with the flow of water in a shingle-like manner slip-resistant printed side up.

- A. Install over clean, dry continuous structural deck such as concrete, gypsum, Densdeck™, metal, plywood, or OSB board, at temperature 0 degrees and rising. High temp rated to 280 degrees. Note install test sample to roof deck surface prior to installation to determine proper adhesion prior to installing and prior to walking on installed underlayment as a safety precaution.
- B. No primer required.

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- C. Cut the self-adhered roof underlayment into lengths that are manageable for the installer(s).
- D. Start at eave of roof or low point and work toward high point of the roof. Position underlayment and peel away split release liner at top of underlayment.
- E. Press the underlayment into place by hand.
- F. Flop underlayment up and pull release liner from bottom side of underlayment and press into place by hand.
- G. Install with minimum 4" head lap and 6" side lap. Install subsequent courses in a shingling application per standard roofing practice.
- H. Once installed use heavy hand roller at seams to maintain continuous seal.
- I. For adhesive set tile systems use Dow™ or PolyFoam™ polyurethane adhesive per manufactures specification for clay or concrete tile and nail using 1" metal round cap nails every 6" on center along the top horizontal edge 2" below top edge of underlayment. Subsequent courses shall overlap nails by 2".

3.03 Cleaning and Protection

- A. **Cleaning:** Remove temporary coverings and protection of adjacent work areas. Repair or replace any damaged installed underlayment. Clean installed products in accordance with manufacturer's instructions prior to owner's Acceptance, which is to remove all loose debris and leave deck in clean broom swept manner. Remove construction debris from project site and legally dispose of debris. **Protection:** Protect installed product's finished surfaces from damaged during construction.