Code Compliance Research Report
CCRR-0611

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DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Section: 07 30 05 – Roofing Felt and Underlayment

REPORT HOLDER:
Ark Guard LLC
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USA
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REPORT SUBJECT:
Armour AD Pro and Armour AD ProMax Self-Adhered Synthetic Roofing Underlayments

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021, and 2018 *International Building Code®* (IBC)
- 2024, 2021, and 2018 *International Residential Code®* (IRC)
- 2023 *Florida Building Code* (FBC) (See Section 8.0)

NOTE: This report references the most recent Code editions noted. Section numbers in earlier editions may differ.

1.2 Armour AD Pro and Armour AD ProMax Self-Adhered Synthetic Roofing Underlayments have been evaluated for the following properties (see Table 1):

- Physical Properties
- Ice Barrier

1.3 Armour AD Pro and Armour AD ProMax Self-Adhered Synthetic Roofing Underlayments have been evaluated for the following uses (see Table 1):

- In the field of the roof where self-adhering roof underlayments complying with ASTM D1970 are required as specified in Chapter 15 of the IBC, and Chapter 9 of the IRC.
- Use in areas of the roof required by IBC Section 1507 or IRC Section R905 to have ice barrier roof underlayment, when installed as noted in Section 4.2.

2.0 STATEMENT OF COMPLIANCE

Armour AD Pro and Armour AD ProMax Self-Adhered Synthetic Roofing Underlayments comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 5.0.

3.0 DESCRIPTION

Armour AD Pro is a self-adhered synthetic roofing underlayment consisting of a polypropylene mesh on the exposed side, a lamination layer, a polypropylene scrim, and a butyl layer on the sheathing side which is protected by a removable release liner made of silicon-coated paper. It has a nominal weight of 801 gsm (16.41 lbs/100sq.ft). The underlayment is available in rolls of 35.8 in. wide by 67 ft. long and is grey color.

Armour AD ProMax is a self-adhered synthetic roofing underlayment consisting of a polypropylene mesh on the exposed side, a lamination layer, a polypropylene scrim, and a butyl layer on the sheathing side which is protected by a removable release liner made of silicon-coated paper. It has a nominal weight of 1001 gsm (20.50 lbs/100sq.ft). The underlayment is available in rolls of 35.8 in. wide by 67 ft. long and is grey color.

4.0 INSTALLATION

4.1 General: Armour AD Pro and Armour AD ProMax Self-Adhered Synthetic Roofing Underlayments must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

4.2 Application: The roof deck must be in proper condition to ensure adhesion. Installation is limited to solid-sheathed decks to plywood substrates. The membrane is self-adhered to the substrate after the release liner is removed.

The membrane is applied from the lower edge of the roof, extending up the roof a distance of 24 inches inside the exterior wall line of the building. The membrane must be lapped a minimum of 3 inches on horizontal seams and 6 inches on vertical seams. Flashings around protrusions must be installed under the underlayment.

When used as an ice barrier, the membrane is applied from the lower edge of the roof, extending up the roof a distance of 24 inches inside the exterior wall line of the building. The underlayment may be installed with the roof coverings specified in IBC Table 1507.1.1(1) and IRC Table R905.1.1(1), where ASTM D1970-compliant underlayments are permitted. The underlayment must be installed in accordance with IBC Table 1507.1.1(2) and IRC Table R905.1.1(2) and fastened in accordance with IBC Table 1507.1.1(3) and IRC Table R905.1.1(3).

The roof covering may be installed immediately following the underlayment application, and the underlayment must be covered within the time designated in the report holder's published installation instructions.

5.0 CONDITIONS OF USE

5.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

5.2 Installation is limited to use with approved mechanically attached roof covering systems.

5.3 Installation is limited to roof systems that do not involve hot asphalt or coal-tar pitch.

5.4 Installation is limited to roofs with a slope of 2:12 (17%) or greater.

5.5 Attic ventilation must be provided in accordance with the applicable Code since there are no requirements to evaluate vapor permeability of the underlayments.

5.6 Armour AD Pro and Armour AD ProMax Self-Adhered Synthetic Roofing underlayments are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

6.0 SUPPORTING EVIDENCE

6.1 Reports of tests in accordance with ASTM D1970.

6.2 Intertek Listing Report "Ark Guard LLC - Armour AD Pro and Armour AD ProMax Self-Adhered Synthetic Roofing Underlayments", on the Intertek Directory of Building Products.

7.0 IDENTIFICATION

The Ark Guard LLC - Armour AD Pro and Armour AD ProMax Self-Adhered Synthetic Roofing Underlayments are identified with the manufacturer's name, address, the product name, the Intertek Mark as shown below, the Intertek Control Number and the Code Compliance Research Report number (CCRR-0611).

8.0 OTHER CODES

8.1 Florida Building Code: The Armour AD Pro and Armour AD ProMax Self-Adhered Roofing Underlayments described in Sections 2.0 to 7.0 of this report comply with the 2023 *Florida Building Code – Building* and 2023 *Florida Building Code – Residential*, subject to the following conditions:

8.1.1 For Use Outside HVHZ: The underlayments may be installed with roof coverings specified in FBC (Building) Section 1507.1.1 and FBC (Residential) Section R905.1.1, where ASTM D1970-compliant underlayments are permitted. The underlayment must be installed in accordance with FBC (Building) Section 1507 and FBC (Residential) R905.

The underlayments may be installed with clay and concrete tiles outside of the HVHZ when installed in accordance with *Florida Building Code – Building*, Section 1507.3.3 and *Florida Building Code – Residential*, Section R905.3.3.

8.1.2 For Use Inside HVHZ: The underlayments may be installed with the roof coverings specified in FBC (Building) Section 1518, where ASTM D1970-compliant underlayments are permitted. The underlayment must be installed in accordance with the provisions of FBC (Building) Section 1518.

- The underlayments may additionally be used where underlayments complying with TAS 103 are permitted in TAS 110, as referenced in Florida Building Code – Building, Section 1515.1.4.
- Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*.

9.0 CODE COMPLIANCE RESEARCH REPORT USE

9.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

9.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

9.3 Reference to the https://bpdirectory.intertek.com is recommended to ascertain the current version and status of this report.

TABLE 1 – PROPERTIES EVALUATED

PROPERTY	2024 IBC SECTION [1]	2024 IRC SECTION [1]	2023 FBC SECTION (BUILDING)	2023 FBC SECTION (RESIDENTIAL)
Physical Properties	1506 1507	R904 R905	1506 1507.1.1 1515.1.4 1518	R904 R905.1.1
Ice Barrier	1507	R905	N/A	N/A

[1]Section numbers pertain to the most recent edition cited in Section 1.1 of this Report