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Letter Report No: 106397205COQ-001

Ann Zhang
Ark Synthetics Inc.
2015 Main Street 2nd Floor
Vancouver, BC V5T 3C2
Canada

Phone: 778-325-1557
Email: ann@arksynthetics.com

Subject: Evaluation of Armour AD Pro and Armour AD ProMax Roofing Underlayments per 2023 Florida Building Code – Building and Residential

Dear Ms. Zhang,

Intertek Testing Services NA Ltd. (Intertek) has conducted a product evaluation for Ark Synthetics Inc. (Ark Synthetics) on their Armour AD Pro and Armour AD ProMax self-adhered synthetics roofing underlayments to evaluate their physical properties. The evaluation is being conducted to determine if these underlayments comply with the requirements of the 2023 Florida Building Code (FBC) – Building and Residential. The evaluation involves reviewing relevant test data prior to updating Ark Synthetics' existing Intertek Code Compliance Research Report (CCRR) to include the additional Code.

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 colour.

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 colour.

In accordance with 2023 FBC Sections R905.1.1 and 1507.1.1, Armour AD Pro and Armour AD ProMax, for roof slopes 2:12 and greater, shall be applied and attached in accordance with ASTM D1970 and installed in accordance with both the underlayment manufacturer's and the roof covering manufacturer's installation instructions. Additionally, Armour AD Pro and Armour AD ProMax may also be installed with clay and concrete tiles outside of the High-Velocity Hurricane Zone (HVHZ) when installed in accordance with 2023 FBC Sections 1507.3.3 and R905.3.3. The Code requires self-adhered underlayments to comply with ASTM D1970, a requirement that Armour AD Pro meets.

Therefore, it is Intertek's professional opinion that Ark Synthetics' Armour AD Pro and Armour AD ProMax are compliant with the 2023 FBC when installed in accordance with the applicable code provisions.

Intertek will update CCRR-0611 to include recognition of Armour AD Pro and Armour AD ProMax under the 2023 FBC.

If you have any questions regarding this letter report, please do not hesitate to contact the undersigned.



Sincerely,

INTERTEK TESTING SERVICES NA, LTD.

Reported by:

EGBC Permit No.: 1000953

David Xu, P.Eng.
Engineer - Evaluation Services

Reviewed by:

Emma Amiralaei, P.Eng.
Manager – Evaluation Services NA