



Installation Guide

Armour AD

High-Performance Self-Adhered Roof Underlayment

For Asphalt Shingles • Metal Roofing • Tiles • Synthetic Shingles • Steep-Slope Systems

Product Overview

Armour AD is a temp-tolerant self-adhered underlayment designed for steep-slope roofs, offering superior waterproofing and anti-slip walkability. With excellent tear strength and dual ice-and-water protection, it ensures reliable performance and installer confidence even in extreme cold.

Storage

For best results store Armour AD Pro upright in its original packaging in a wellventilated area at room temperature between 40°F (4.4°C) and 90°F (32°C).

Deck Preparation

Armour AD Pro should be installed over a clean, smooth, and dry deck. The deck should also not have any voids, protrusions, damaged or unsupported areas. For re-roofing projects, replace any water damaged sheathing and sweep roof deck thoroughly removing dust, dirt and loose nails. Do not install over old roof covering.

STANDARD APPLICATION INSTRUCTIONS

Temperature Requirements

For best results Armour AD Pro should be installed when the air, membrane, and substrate temperature is over 40°F (4.4°C). However, Armour AD Pro can be installed in temperatures as low as 32°F (0°C) and rising.

Priming

Priming is not required when attaching to wood or OSB decks. Concrete or masonry decks should be primed with a solvent or water-based primer that meets ASTM D41 for self-adhesive membranes.

Membrane Installation

Membrane to be applied in shingle-lap fashion working from the low point to the high point of the roof. For easier installation, it is recommended to cut the membrane into manageable lengths. Then peel back one side of the split release liner and apply in

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position on the roof deck and then press in place by hand or with a weighted roller to increase adhesion. Once one side has been pressed to the deck peel back the remaining half of the release liner and press down to adhere to the roof deck again using a weighted roller.

Selvage Edge Rolling

For improved adhesion hand rolling over the selvage edge and directly above the selvage edge using a weighted roller is recommended. If a roller is not available or not considered safe, walk on all laps and as much of the field area as possible.

Cold Weather Application (32°F / 0°C or below)

A primer should be used and the uppermost selvage edge blind-nailed using 3/8" head roofing nails 1" or longer. Space nails along edge at 12" intervals using the marked locations. For best results, allow Armour AD Pro to ambiently warm to room temperature prior to application.

Steep Slope / High Wind / Hot Weather

For slopes 5:12 or greater, high-wind areas, or temperatures above 100°F (38°C), blind nail the selvage edge as described above. For valley applications, peel the release liner, center the sheet, and hand-press from center outward. Armour AD Pro must stay in continuous contact with the deck and should never be bridged or suspended across valleys.

Final Notes & Repair

Follow up with a weighted roller or by walking on the surface. Pay special attention to all perimeter edges and overlaps. Repair holes, fish mouths, tears, and other damage using a round patch of membrane extending 6 inches beyond the damaged area in all directions. Do not install fasteners through the membrane over unsupported deck areas such as structural panel joints.

Precautions

Personal Protection: When installing self-adhered roof underlayment, always wear appropriate personal protective equipment (PPE), including non-slip shoes, safety harness, gloves, and safety glasses, to prevent falls from height or cuts from membrane edges and tools.

Environmental Conditions: Avoid installing self-adhered underlayment in high wind, rain, snow, ice, or extreme temperatures (too hot or too cold), as these conditions may reduce adhesion or compromise safety during installation.



Handling Penetrations: Properly prepare and seal roof penetrations, such as chimneys, vents, and skylights, using roofing-specific sealants or membrane patches to ensure continuous waterproofing and airtightness.

Maintenance & Warranty

Armour AD do not need special maintenance after installed; Lifetime warranty from the day of installation if it is quality defects.

Remark:

Recommendations on methods, materials, and construction details are provided by Ark Synthetics based on current knowledge and experience. They serve as a general guide for designers, contractors, and manufacturers. Installation should also consider local conditions, project-specific requirements, and guidance from designers or other qualified professionals. For project assistance, contact: info@arksynthetics.com

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