



Storage & Installation Instructions

PRECAUTIONS

1. Temporary Use: Raptor SA is not designed for long-term outdoor exposure. Final roofing should be installed within 90 days.
2. Underlayment Use: Raptor SA is designed for use under various roofing materials, including metal, tile, slate, shake, and shingle.
3. Ventilation Requirement: Raptor SA is an air, water, and vapor barrier. It should be installed above a properly ventilated space.
4. Local Regulations: Always follow local building codes and regulations.
5. Roof Pitch and Support: Depending on roof pitch and surface conditions, blocking may be required to support roofing materials.

SURFACE PREPARATION

1. Raptor SA can be applied to plywood, OSB, concrete, or masonry roof surfaces. For optimal performance, the SA should be fully covered with a final roofing material as soon as possible, but no later than 90 days after application. When the temperature exceeds 5° F (below -15° C), priming is not necessary for wood surfaces. However, concrete and masonry decks require priming with a solvent-based or water-based primer that meets standards for butyl based self-adhesive membranes.
2. The roof surface must be clean, dry, and free of any protrusions that could potentially damage the SA.
3. The roof deck should be free of voids, damaged areas, or unsupported sections to ensure proper SA adhesion and performance.
4. For re-roofing projects, it is essential to replace any water-damaged sheathing and thoroughly clean the roof deck to remove dust, dirt, loose nails, and remnants of the old roofing material.
5. To avoid potential damage to the SA and roofing materials, it is advisable to refrain from using calcium or salt-based de-icers for ice and snow removal.

INSTALLATION

1. For optimal performance, Raptor SA should be installed on a dry deck when the air, membrane, and substrate temperatures are consistently above 5° F (below -15° C).
2. For cold weather applications 5° F (below -15° C), use a primer and blind-nail the laps with 1" 3/8" head roofing nails within the marked 4" overlap area.
3. It is recommended to use blind-nailing on steep slopes with a pitch of 8:12 or greater. Additionally, blind-nailing is recommended for installations performed in temperatures exceeding 150°F (65.6°C).
4. Raptor SA should be laid out horizontally, parallel to the eaves, with the printed side facing upward. Maintain 4" horizontal overlaps and 10" vertical overlaps
5. Raptor SA can also be installed vertically. Anchor with 3/8" head roofing nails, 3" down from the top edge, spaced 6" apart across the 36" width. Ensure nails are perpendicular to the roof deck for a tight seal. Maintain 4" vertical and 10" horizontal overlaps.
6. Always begin installation at the lowest point of the roof and work progressively towards the highest point. Prioritize the application of the membrane in valley areas before applying it to the eaves.
7. Cut the membrane into manageable sections, re-roll loosely, and peel back the liner. Apply the membrane, hand-press or walk on it, and then use a roller to secure it, especially at overlaps. If a roller isn't available, walk on all laps and the field area to activate the adhesive.
8. For eave installation, Raptor SA should be applied over the metal drip edge at the eaves. Avoid folding the membrane over the roof edge unless the edge will be subsequently covered by a drip edge or other flashing material. The membrane should extend from the eaves up the roof to a point 24 inches inside the exterior wall. This extension should be above the maximum potential ice dam buildup line in most areas. Consult your local building codes for specific requirements related to ice dam protection and membrane installation.
9. For valley and ridge applications, peel back the release liner and center the membrane sheet over the valley or ridge. Drape the membrane into place and hand-press it to secure it. It is crucial to maintain full contact between the membrane and the roof deck, both within and outside the valley area. Avoid suspending or bridging the valley with the membrane, as this can compromise the watertight seal. To enhance adhesion, follow up with a pressure roller or walk on the surface. Pay particular attention to all perimeter edge areas to ensure a secure and watertight seal.
10. Do not install Raptor SA directly over old roof systems.
11. Repair any holes, fish mouths, tears, or other penetrations in the membrane with a round patch of membrane, or 9" Raptor SA Tape. Ensure the patch extends at least 6 inches beyond the damaged area in all directions. If fasteners are removed, leaving holes in the membrane, or if other accidental penetrations occur, they must also be patched to maintain the integrity of the membrane.
12. Do not install fasteners through the membrane over any unsupported areas of the structural deck, such as over joints between adjacent structural panels.
13. To protect completed roof areas from potential damage during ongoing roof installation and material transportation, install protective boardwalks.
14. In climates prone to severe ice damming, it is recommended to install a double layer of Raptor SA for enhanced protection against water damage.

STORAGE

1. Raptor SA should be stored at room temperature, upright in its original cardboard packaging, in a dry, properly ventilated area. Keep the material away from open flames, sparks, and harmful substances, and protect it from the elements.
2. To maintain optimal performance, only remove rolls from storage for same-day use.
3. For best results, store Raptor SA in temperatures between 5°F (-15°C) and 150°F (65.6°C). If room temperature storage is not feasible, it is recommended to heat the material to a minimum temperature of 5°F (-15°C) prior to application.
4. To avoid excessive stress on the roof deck, be careful not to concentrate too much material weight in one area. Distribute the weight evenly over structural supports wherever possible.
5. Raptor SA has a 2 year shelf life.

WE DO NOT WARRANT INSTALLED RAPTOR SA TO BE LEAKPROOF. due to several issues that can arise during installation, including but not limited to, tears, cuts, damage to the membrane from tools and other roofing items, areas left un-flashed, improper installation, and severe weather. However, water cannot pass through installed, intact Raptor SA with proper installation techniques and proper adhesion. Raptor SA has passed all of ASTM D1970, which tests against leaking, including nail sealability, horizontal and vertical lap sealability, tear strength, and adhesion to roof deck substrates. "Drying In" a residential roof with Raptor SA is absolutely achievable, using proper installation, and flashing applicable areas using metal trims and the 4 sizes of Raptor SA available.

Raptor SA Roll Size	5' x 80'
Weight per roll	32 lbs
Roll Coverage	4 sq
Rolls per pallet	36

Raptor SA Roll Size	3' x 133'
Weight per roll	32 lbs
Roll Coverage	4 sq
Rolls per pallet	36

Raptor SA Roll Size	18" x 100'
Weight per roll	11.8 lbs
Roll Coverage	1.5 sq
Rolls per pallet	72

Raptor SA Tape Roll Size	9" x 100'
Weight per roll	5.9 lbs
Roll Coverage	75 sq ft
Rolls per pallet	144

Technical Information:

- Thickness - 17.5 mil
- Recommended exposure limit 90 Days
- QAI Certification CERus-1056
- Meets & Exceeds ASTM D1970
- Florida Building Code Pending
- TDI Pending
- Split release liner available on all sizes



Application Tips
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