

SURROUND® VR UNDERLAYMENT INSTALLATION

PREPARATION

- Repairs to the deck or sheathing should be complete and the area swept clean before installation. Every person working on the roof needs to fully understand and comply with the safety precautions included with this guide.
- If using self-adhered membrane in severe climates, install Surround® VR Underlayment over membrane. Install a drip edge along the eaves before applying underlayment and along the rakes after applying underlayment.
- Use 1-inch diameter plastic cap roofing or underlayment nails to fix Surround® VR Underlayment in position. Nails should be driven squarely into the deck and flush with the underlayment. Use of staples is not recommended.

FIRST COURSE

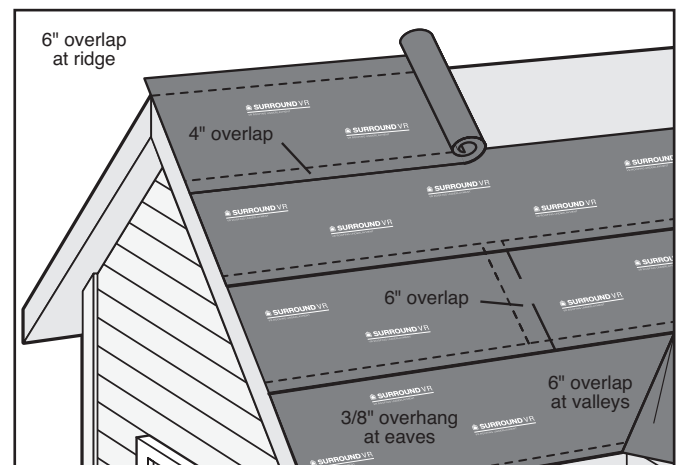
- Beginning at a bottom corner of the roof, lay Surround® VR Underlayment in horizontal courses with printed side up.
- Unravel 2 or 3 feet of the roll and position it to be rolled across the bottom of the roof, even with the eaves with a 3/8-inch overhang.
- Maneuver into position so it covers the deck right up to the rake but not over the sides of the building. Drive roofing nails into the top corner.
- Pull roll, straighten, and align along the eaves. Ensure there are no wrinkles. Nail at the top with capped roofing nails spaced 8 inches apart. In high wind zones and coastal areas, underlayment shall be attached at 4 inches on center on both the head and end laps. Nail middle and bottom simultaneously with a pattern of nails 24 inches apart.
- Roll out toward the other end of the roof and repeat the nailing pattern.
- Extend over the rake and cut with a utility knife. Trim away any excess that overhangs the rake to complete the first course of underlayment.
- Overlap ends of rolls by 6 inches and drive nails every 4 inches at the overlap.
- Never walk on Surround® VR Underlayment that is not securely nailed down.

SECOND COURSE

- Position the next course so it overlaps the first by 4 inches. Use the printed line on the roofing underlayment as a guide for lining up the course and drive capped nails 4 inches at the overlap. In high wind zones and coastal areas, underlayment shall be attached at 4 inches on center on both the head and end laps.
- The bottom of the second course should be on top of the first (lower) course so moisture will flow over the layers.
- Repeat the procedure of laying the first course of Surround® VR Underlayment.
- Surround VR is not recommended for use on slopes of less than 3:12.

RIDGE

- Continue laying in courses over the remainder of the deck.
- Lap top course at least 6 inches over the roof ridge.



Application of Surround VR Underlayment

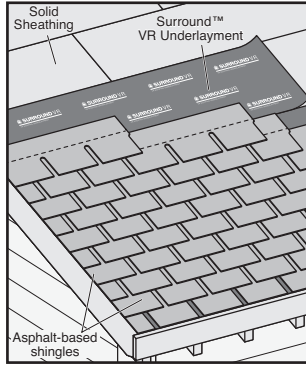
ROOF COVERING

Use roof jacks, toe boards or storage platforms secured to the underlying roof deck to prevent slippage of stored roofing materials. Installation of the roof covering material should immediately follow the underlayment. Surround® VR Underlayment is not designed for indefinite outdoor exposure. Apply finishing material as soon as possible. Do not leave exposed for more than 6 months. Check local building code to ensure compliance in your area. Local building codes may vary.

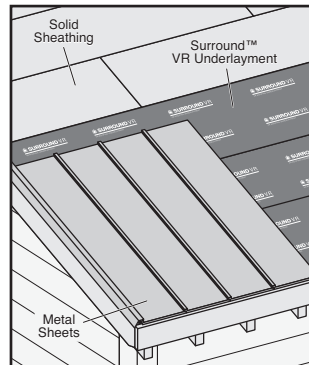


SHINGLES

While an adhesive membrane is not normally necessary due to the weather resistance of Surround® VR Underlayment, if installed, it should be positioned at the eaves prior to installing underlayment.



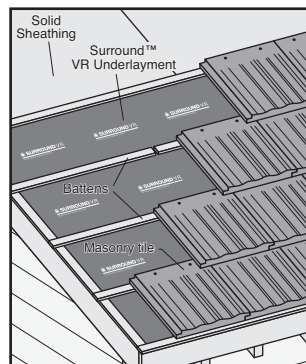
Asphalt based shingles



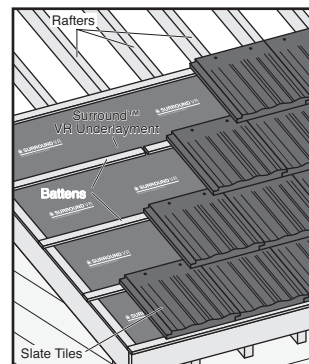
Metal sheet

TILE AND SLATE

Techniques for installing underlayment under tile roofs vary with the choice of one or more layers of felt or a combination of felt and roll roofing, whereas one layer of Surround® VR Underlayment will normally be sufficient. If the roof deck is not sheathed, Surround® VR Underlayment should be installed over the rafters and under the battens. Attic insulation materials should allow adequate ventilation to avoid trapping moisture between rafters and underlayment.



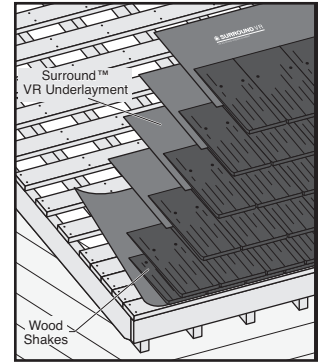
Masonry tiles over solid sheathing



Slate over rafters and batten

SHAKES

For wood shake roofs, Surround® VR Underlayment can be sandwiched between courses.



DRIP EDGE

On homes where eaves and rake are visible from the ground, a drip edge sets off the area where siding and shingles meet. Install a drip edge along the eaves after applying adhesive membrane (if installed) but before applying Surround® VR Underlayment. Install along the rakes after applying Surround® VR Underlayment and under flashings. Shingles typically overhang the drip edge by 1 inch at the eaves and rake.

CHALK LINES

Vertical and horizontal chalk lines are needed for the proper application of shingles. Mark lines in English or Metric units depending on the dimensions of the manufactured shingles.

CHIMNEY, VENT AND DORMER FLASHINGS

With chimneys, layers of Surround® VR Underlayment must be positioned under the flashing at the top, sides, and bottom. Make sure that Surround® VR Underlayment fits securely under step flashings.

ICE DAMS

An ice dam forms when heat from trapped attic air slowly melts snow on the roof. As the water reaches the roof's edge, it freezes and creates a dam of ice. As the meltwater increases, so does the dam. In time, melted water is forced under the shingles and through the sheathing and can create enough force to lift shingles. However, proper ventilation and insulation will prevent the uneven temperatures that cause ice dams.



ROOFING UNDERLAYMENT

For more information,
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