



AC TOPSEAL®

**SELF-ADHERED, GRANULAR SURFACED, SINGLE PLY,
LOW SLOPE ROLLED ROOFING**

3' X 33.3' = 100 SQ. FT.

10 YEAR MATERIAL LIMITED WARRANTY

**For Use on Porches / Sheds / Utility Buildings / Accessory Buildings
AC TopSeal® Colors: Grey, WeatherWood, Black, White, Brown & Tan**

DESCRIPTION:

AC TopSeal® rolled roofing is a self-adhered, rubberized asphalt product designed to protect residential low slope roofs. AC TopSeal® rolled roofing consists of a proprietary modified asphalt, a tough polyester reinforcing core, and a granular surface to protect against UV rays, weathering and physical damage. AC TopSeal® rolled roofing is available in 100 sq. ft. (9.3 sq. m.) rolls, 3 ft. by 33.3 ft. (0.9 m by 10.1 m).

Read and understand all installation instructions and precautions before installing.

GENERAL APPLICATION INSTRUCTIONS

A. PRECAUTIONS:

- **Only for use on:** Oriented Strand Board (OSB) or plywood roof decks (no planked roofs). AC TopSeal® rolled roofing may be used for new construction or re-roofing. Minimum OSB or plywood thickness is 15/32 in. (1.19 cm.). Maximum space between sheathing is 1/4 in. (0.64 cm.).
- **Roof Conditions:** The roof deck must be structurally sound, securely nailed, dry, clean, and free of dust, oil, frost and protruding nails.
- **Priming:** All roof decks **require priming. Please see Section “D. Priming” for details.**
- **Ventilation:** The attic or roof space must be adequately ventilated according to local building code requirements.
- **Mastic/Adhesive:** All end lap treatments require mastic/adhesive for AC TopSeal® rolled roofing. Please see Section “E. Mastics/Adhesives” for details.
- **Roll Size:** When measuring the roof to be covered, consider that approximately 10% of the roll will be consumed for side laps, end laps, and waste.
- **Temperature Restrictions:**
 - AC TopSeal® rolled roofing is to be installed when ambient and substrate temperatures are 40°F (5°C) and rising, including the 24 hours before installation. Store rolled roofing inside for better adhesion prior to application.
 - At ambient temperatures above 90°F (32.2°C) and rising, AC TopSeal® rolled roofing should be stored in a shaded area prior to application. If the rolled roofing is exposed to high temperatures or direct sunlight, the paper release liner may be difficult to remove. Moving the rolls to a shaded location will allow them to cool sufficiently and allow the release liner to be easily removed.
- **Roof Protrusions:** All roof protrusions such as soil pipes and vents should be addressed prior to installing rolled roofing over the roof deck. See Figure 9 and Roof Protrusion instructions.
- **Storage:** AC TopSeal® rolled roofing should be stored in an inside, dry, well-ventilated area. Stand rolls upright. Do not store at 90°F (32.2°C) or warmer for extended periods of time. Store on a hard, flat, level surface. Do not stack more than two (2) pallets high. If there is any sign of pallet damage or water intrusion to pallets or boxes, do not double stack.
- **When working on the roof** use all necessary safety precautions and guidelines in accordance with proper roofing trade practices.
- **AC TopSeal® rolled roofing should be installed by a professional contractor.**
- **AC TopSeal® rolled roofing is intended for exterior roof applications only.**
- **Do NOT install AC TopSeal® rolled roofing over uncured caulking, uncured sealants, or flexible vinyl.** If these products are installed over any of these materials, the adhesive will melt and run causing unsightly streaks and drips. It is the installer’s responsibility to determine whether all the materials used are compatible with each other. Contact the caulking or sealant manufacturer to ensure the product is compatible with asphalt. Caulking and sealants must be fully cured before covering with AC TopSeal® rolled roofing.
- **Do NOT install AC TopSeal® rolled roofing over granular surfaced roofing, EPDM, urethane based materials or flexible PVC.**

B. ROOF PITCH REQUIREMENTS:

1. The minimum slope is 1:12 and the maximum slope is 2:12.
2. Back nailing is required along the selvedge edge every 12 in. (30.5 cm.). See Figure 3B.
3. All roof surfaces must have positive drainage.

C. NEW ROOF DIRECT-TO-DECK PREPARATION:

The roof deck must be structurally sound, securely nailed, dry, clean, and free of dust, oil and frost. AC TopSeal® rolled roofing must be applied directly to a primed plywood or a primed OSB structural deck.

D. PRIMING

Prime roof deck to enhance the bond of the rolled roofing to the substrate. Ensure all areas are primed prior to installing AC TopSeal® rolled roofing.

Carefully read the installation instructions provided with the primer before starting work. Follow the manufacturer's published installation recommendations, paying particular attention to environmental conditions, storage requirements, application rates, anticipated dry times and surface conditions at the time of rolled roofing application. While it is typically appropriate for primers to fully dry, some water based primers should dry only until the surface is dry but tacky, at which time the rolled roofing is applied. Only prime the area that the rolled roofing can be applied to that day.

If an SBS modified asphalt primer is not available, SealBest® DrySeal manufactured by ThorWorks Industries, Inc., can be used as an alternative product with the following changes to the application:

1. SealBest® DrySeal should be applied by brush or roller to the entire area to be covered by the rolled roofing.
2. SealBest® DrySeal should be applied as a thin coating that completely covers the surface. The 60 mil (1.524 mm.) requirement by ThorWorks Industries is not needed when using SealBest® DrySeal as a primer underneath AC TopSeal® rolled roofing.
3. SealBest® DrySeal should be allowed to dry until it is dry to the touch but does not transfer to your hand. The material will dry black.

CAUTION! Prior to drying, primer may wash off in a rain event. Primer will permanently stain finishes if washed into adjacent surfaces.

E. MASTICS / ADHESIVES

Mastics are used to adhere membrane to membrane applications where there is a granular substrate surface or there is inadequate adhesion between the self-adhered membrane layers. An SBS polymer modified mastic shall be used in all applications. All mastics should comply with ASTM D4586. Apply mastic with a trowel, forming a 1/8 in. (.32 cm.) thick layer. Do NOT over apply mastic. Clean off excess while still wet. Always form the lap into wet mastic.

LOW SLOPE INSTALLATION INSTRUCTIONS

RE-ROOF APPLICATION PREPARATION:

AC TopSeal® rolled roofing may be installed over a layer of existing self-adhered ice & water protection membrane as long as the top surface of the ice & water is smooth, dry and has a non-granulated surface. All blisters or wrinkles must be cut, re-nailed and sealed with appropriate mastic. Applications of this type are based on the judgment of the roofer as to the conditions of the old roof system. The manufacturer does not assume responsibility for problems that are due to the conditions of the old roof system. The roof deck must be dry, clean, and free of dust, oil, frost and protruding nails. The surface should be swept thoroughly. The substrate being covered must be primed following the instructions in Section "D. Priming".

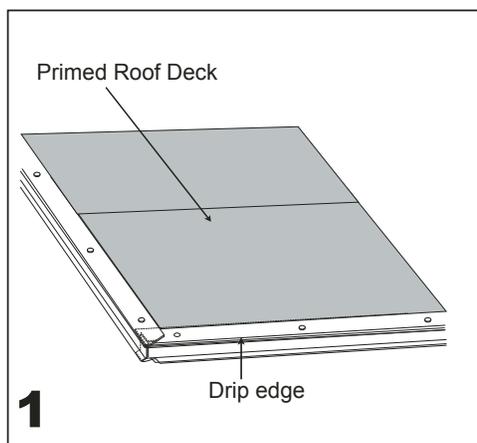


FIGURE 1

ROOF EDGE PREPARATION:

The roof edge must be prepared using this method:

- A. Install metal drip edge to the eaves and rakes. Nail the metal drip edge 8 inches (20.32 cm.) on center.
- B. Prime the top of the drip edge prior to membrane installation. See Section "D. Priming".

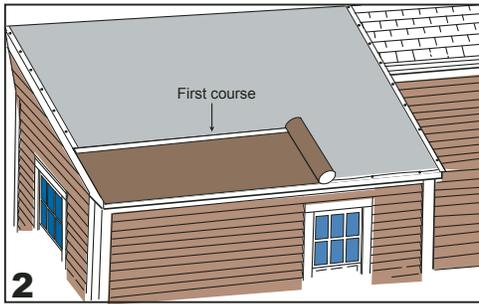


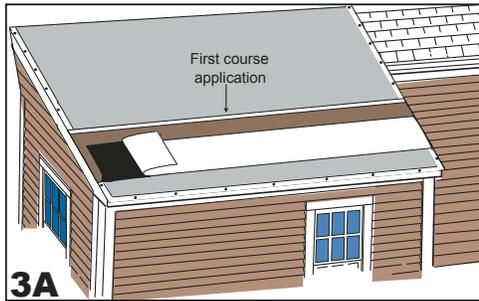
FIGURE 2

ROLL APPLICATION INSTRUCTIONS:

Nails should be hot dipped galvanized tin caps. Cap nails should have integral metal caps (do not use plastic caps), minimum 1 in. (2.54 cm.) in diameter with rounded heads. Consult manufacturer’s literature, local building codes, and project specifications for appropriate nail and fastener types and spacing.

Roof only as much area as can be completed in one day.

- A. Roll AC TopSeal® out onto roof and cut into manageable lengths of 12 to 16 ft. (3.66 to 4.88 m.). Allow the AC TopSeal® to lay flat for 15 minutes to relax from roll configuration. AC TopSeal® must be laying flat at time of installation.



FIGURES 3A & 3B

FIRST COURSE APPLICATION:

- A. Align the AC TopSeal® parallel with the eaves, with the selvedge at the top of the roll. Edge of AC TopSeal® should be flush with drip edge on the eaves and rakes (the bottom and side edges of the roof). If wrinkles or fishmouths appear, re-align the membrane.
- B. Fold the lower half of the membrane back to expose half of the release liner. Remove lower half of the release liner and press the membrane into place, starting in the middle and working your way out to the ends of the AC TopSeal®. See Figure 3A.
- C. Repeat the same process with the upper half of the membrane. Back nail 12 in. (30.5 cm.) on center through the selvedge area using nails as described before. See Figure 3B.

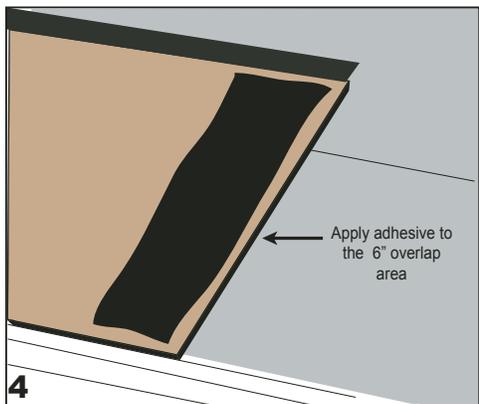
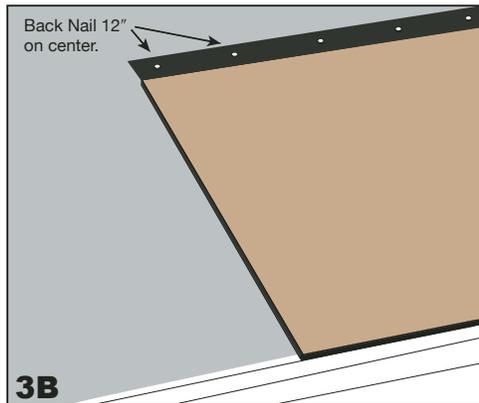


FIGURE 4

END LAPS:

If an additional AC TopSeal® segment is needed to complete the run along the eaves, a 6 in. (15.24 cm.) overlap will be needed. Apply adhesive to the entire 6 in. (15.24 cm.) area at the end of the first run where the overlap will occur. See Section “E. Mastics / Adhesives”.

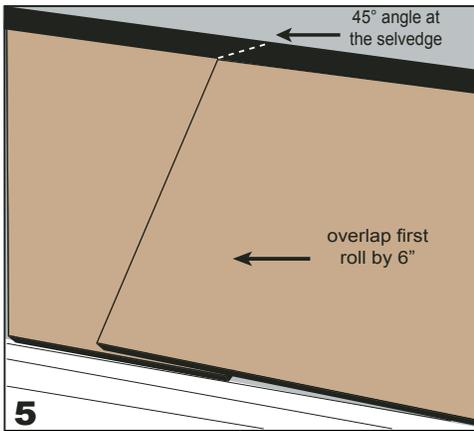


FIGURE 5

Cut the corner of the selvedge of the overlapping membrane to a 45° angle. Apply the second section by overlapping the section by 6 in. (15.24 cm.), covering all of the adhesive.

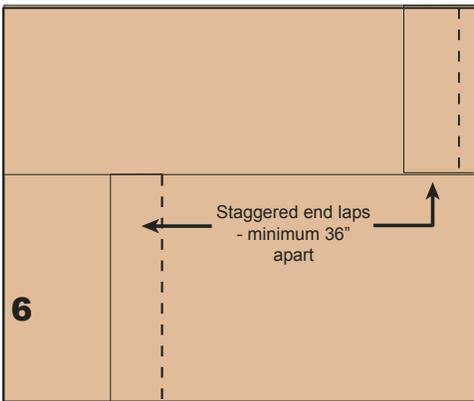


FIGURE 6

All end laps should be staggered from course to course and be at least 36 in. (91.44 cm.) apart.

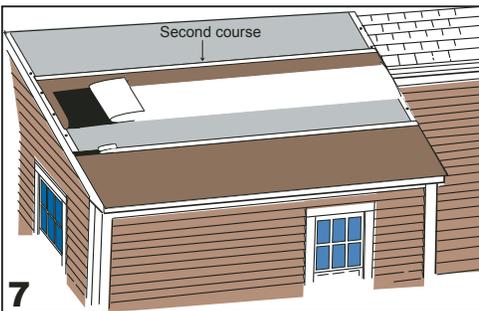


FIGURE 7

SECOND COURSE APPLICATION:

Apply the second course using the same procedure as the first course. Position the upper course to overlap the selvedge edge of the lower course. The selvedge edge is designed to create a 3 in. (7.62 cm.) overlap. Fold back the lower section of the upper course and remove the protective release paper covering the selvedge tape on the lower course. Remove the release liner of the upper course and adhere to the lower course. Roll with a minimum 40 lb. weighted (flooring or garden) roller to ensure good initial adhesion.

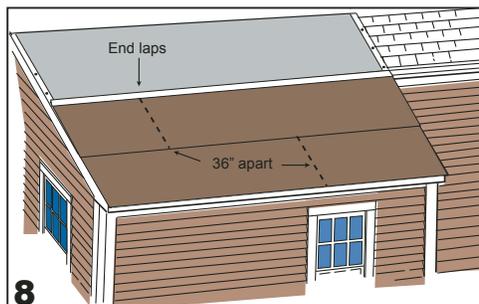


FIGURE 8

STAGGER END LAPS:

After each course is installed, roll with a minimum 40 lb. weighted (flooring or garden) roller to ensure good initial adhesion. Remember all end laps are to be staggered from course to course and be a minimum of 36 in. (91.44 cm.) apart.

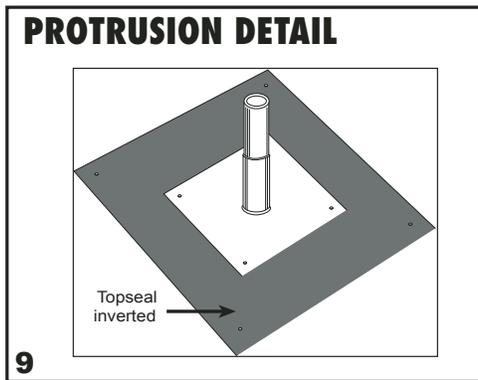


FIGURE 9

ROOF PROTRUSIONS SUCH AS SOIL PIPES:

- a. If a sleeve or boot is being used to seal the roof protrusion, cut a section of AC TopSeal® that will extend a minimum of 6 in. (15.24 cm.) beyond the flange on the sleeve or boot.
- b. Cut a hole in the center of the AC TopSeal® the size of the pipe projection. An exact size can be obtained by placing the center of the AC TopSeal® over the pipe and tapping it gently to create the hole pattern.
- c. Apply a 1/8 in. (.32 cm.) thick coat of an SBS polymer modified mastic around the opening in the roof deck extending it out to the size of the AC TopSeal® cut in step "a".
- d. Slide the section of AC TopSeal® cut in step "a" down over the pipe, release liner side up.
- e. Remove the release liner and nail in 1 in. (2.54 cm.) from each corner.
- f. Ensure that the top surface (sticky surface) of the inverted top seal is clean and free of dirt, oil, water, or other debris that will affect the adhesion of the cap sheet around the penetration.
- g. Slide the sleeve or boot over the pipe and nail the sleeve or boot to the roof deck 1 in. (2.54 cm.) in from each corner.

Before installing the finish course of AC TopSeal® over the pipe sleeve or boot, a 1/8 in. (.32 cm.) thin coat of SBS polymer modified mastic should be applied over the flange on the pipe sleeve. Don't do this step until applying the finish course to avoid tracking roof adhesive over the finished surface.
- h. Apply a silicone caulking approved for roof application around the pipe protrusion.

WARNING!

SLIPPERY SURFACE:

Use extreme caution when installing AC TopSeal® rolled roofing. The surface of AC TopSeal® rolled roofing is slippery even when dry. Use of Fall Protection is Highly Recommended. Consult OSHA for Guidelines on Fall Protection (29 CFR 1926,500).

FALLING HAZARD:

Secure area below work. Unsecured materials may slide on roof. Place on level plane or secure to prevent sliding. Wear a hard hat.

WARNING:

This product contains a chemical known in the State of California to cause cancer.

FOR TECHNICAL INQUIRIES PLEASE CALL 1-800-438-7465.

*See actual warranty for complete details, limitations and requirements.



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