

EPDM ROOFING SYSTEM RETRO-FIT INSTALLATION GUIDE

The instructions contained herein are guidelines for installing Dicor EPDM rubber roofing on older RV's. When applied using the proper techniques, materials, and tools, the EPDM roof should provide years of dependable, trouble free performance. To ensure proper warranty coverage, you should adhere to the installation techniques and materials described in this installation guide. Use of other procedures and products may jeopardize your warranty coverage.

Note: Read fully and understand the procedures before beginning installation.

1. Tools and Materials:

A. Waterbased adhesive (901-BA) is applied to a wood substrate with a roller. The EPDM roofing is applied while the adhesive is still wet.

B. Butyl tape (BT-1834) must be under all vents and accessories on the roof and termination moldings that contact the EPDM roofing. Butyl tape should also be used under the EPDM membrane where it comes in contact with the unit body at the front, rear, and side terminations.

C. Lap sealant (501-LS) is a self-leveling caulk used to seal screw-type fasteners and termination moldings, formulated especially for Dicor EPDM roofing.

D. Paint roller (not supplied) should be 9" wide short nap type. Used to apply waterbased adhesive (901-BA).

E. Push broom or squeegee (not supplied) used to remove air pockets and ensure that the EPDM membrane is completely in contact with the adhesive.

F. Caulking gun (not supplied) used to apply lap sealant (501-LS).

G. Roof decking (substrate, not supplied), depending on the roof load requirements, should be at least 1/8" luan plywood. If the load requirements are heavy (storage pods or consistent traffic) a minimum of 1/2" plywood is recommended. In most new unit applications, 1/4" luan or plywood is the minimum material used, while 3/8" material is more prevalent.

NOTE: Dicor does not warrant selection of substrate material. Feel free to contact Dicor with any questions.

2. Cleaning Information:

You will notice a powdery, white talc on the surface of your EPDM roof membrane. This talc is used in the manufacturing process of the membrane. While this talc will not interfere with the performance of your EPDM roof, and it will eventually be removed by the natural elements, it is recommended that you clean the membrane within a week after installation.

Dicor EPDM roofing can be cleaned with Dicor Rubber Roof Cleaner. For stubborn stains, products containing mineral spirits are recommended. **Do not use Acetone or Citrus Cleaners.** Do not let any cleaning solvent come in contact with the membrane for extended periods of time. Because dust and dirt may collect on the roof, regular cleaning with Dicor's RP-RC160C or RP-RC320S Rubber Roof Cleaner is recommended. Do not park vehicle for extended periods where roof will be exposed to tree sap or fruit as staining may result. A soft bristle brush may be

Preparation

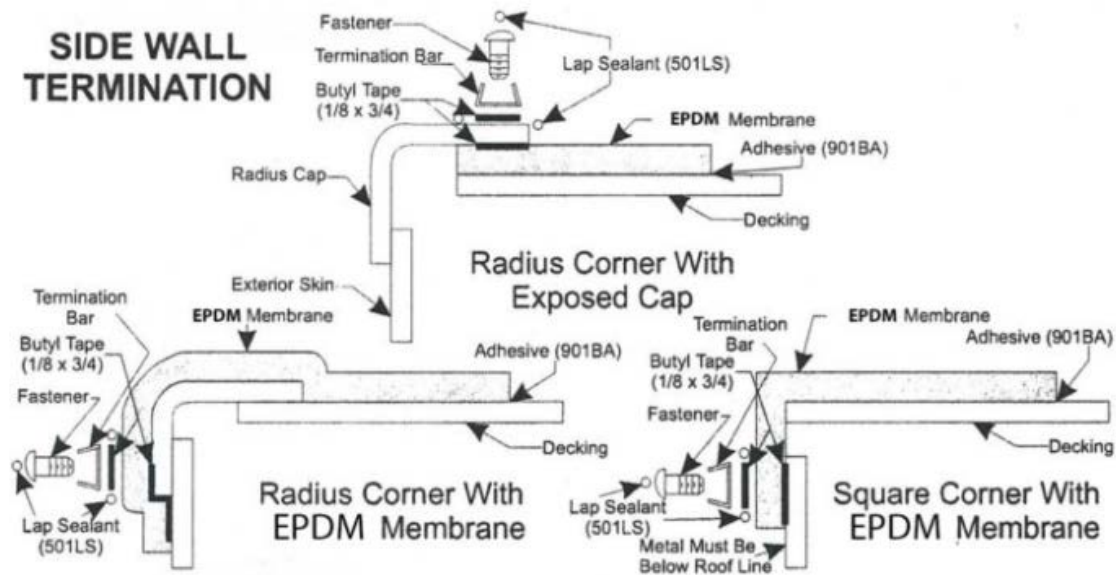
1. Remove all appliances, vents, moldings, etc. that may inhibit the current roofing material from being removed.
2. Evaluate the old roof. EPDM roofing must have a sturdy foundation. Determine if the entire roof should be removed, or if the addition of decking (substrate) will be sufficient. Remember that the substrate must be securely fastened on all edges and seams.
3. Either remove the old roof or apply the substrate over the old roof, if removal will create structural damage.
4. When applying the substrate, make sure it extends to the edges of the roof. Also, make sure all seams are tight and as level as possible. The substrate should be applied using screw-type fasteners with screw heads level or slightly below the surface of the substrate. All substrate seams should be on a rafter for necessary support and to reduce the possibility of "seam separation". If seams are wider than 1/16" you may want to bridge seams with Dicor Fleece Tape 511FT. Additionally, if on the roof edge, the membrane will be going over a sharp edge, you should either bevel the edge of the substrate with a sander or place the Dicor Fleece Tape 511FT over the edge to protect the membrane from the edge.
5. Route-out or cut all vent and appliance openings.
6. Broom or blow-off of substrate all foreign materials and check entire roof for exposed screw heads or sharp objects that may prematurely wear the EPDM roof.

Installation

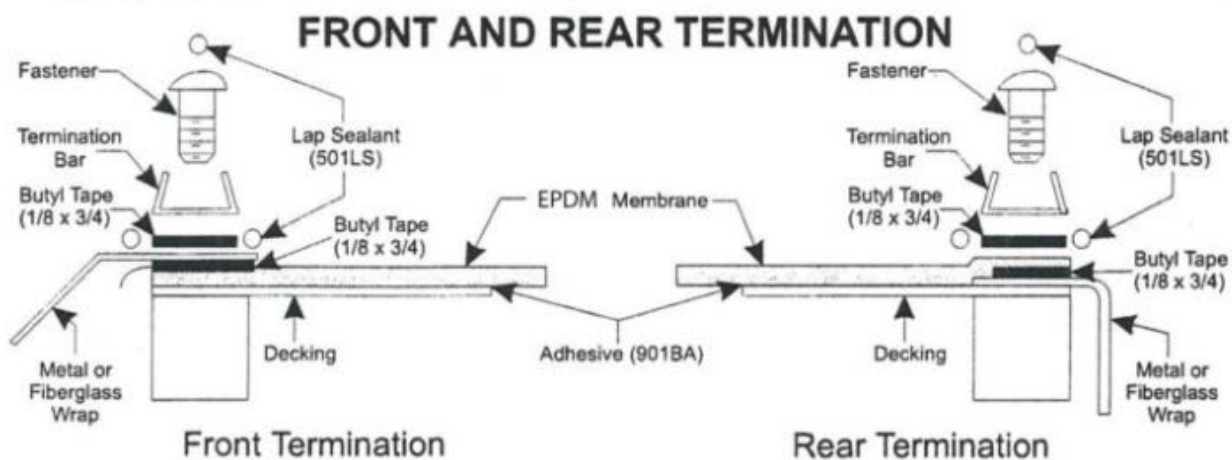
1. Locate the ends (front and rear) where the EPDM roof will be terminated. Use a chalk-line to mark these areas. Make sure there is sufficient roof structure to fasten to.
2. Cover the roof with the EPDM membrane making sure there is sufficient length at both the front and rear termination points. Fold membrane in-half, exposing the roof areas.
3. Open the waterbased adhesive (901-BA) and stir thoroughly. Using a 9" wide short nap paint roller, apply adhesive to the substrate at a rate of 160 sq. ft. per gallon. The membrane is to be mated with the adhesive as quickly as possible.
4. Fold the membrane the opposite direction and repeat step #3.
5. With the membrane in place, adjust to make sure there is sufficient length at both termination points and on both sides of the vehicle. Remove wrinkles by lifting and pulling the membrane. Do not stretch the rubber membrane.
6. Lightly squeegee or broom to eliminate air pockets, making sure the membrane is completely in contact with the adhesive.
7. Apply butyl tape (BT-1834) to the side of the roof edge molding. While holding the molding, draw surplus material tight with a downward pull. (You may staple the membrane in-place spacing 1/2" staples 3-5" apart to keep proper tension.) For best results, install this molding from the center of the vehicle toward the ends. When complete, use a utility knife to cut surplus material from below the molding. Repeat on opposite side.

NOTE: It may helpful to strike a chalk line to assist in keeping the side-body molding straight and in proper position.

SIDE WALL TERMINATION



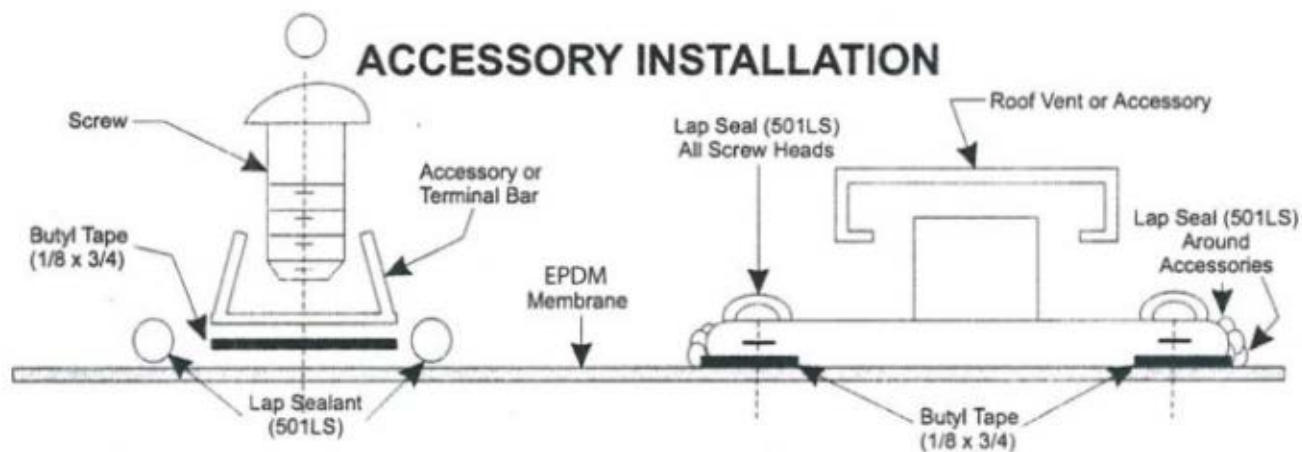
8. Apply butyl tape (BT-1834) to the termination molding. On the front, the front cap should lay on top of the membrane. Using a screw-type fastener, install the termination moldings – making sure there is sufficient roof structure. On the rear of the vehicle, the membrane should lay on top of the rear cap.



NOTE: Butyl tape should also be used under the EPDM membrane where it comes in contact with the unit body at the front, rear, and side terminations. See all termination drawings for correct butyl placement.

9. Using a utility knife "X" cut all roof openings. Make sure all openings are cut the same size as previous openings. Round all 90 degree cuts to eliminate "running cuts". Surplus material should be stapled inside vent openings. Do not stretch the rubber membrane. Trim all excess material.

10. Apply butyl tape (BT-1834) to all appliances, vents, etc. Re-install using screw-type fasteners. When installing the vents, appliances, etc. you may notice that the EPDM membrane near the screws begins to "creep" and small air pockets form. Simply "walk" the bubble toward the opening and hold-in-place while installing screw-type fasteners.



Caulk all screw heads, front and rear termination bar and all accessories.

Note: Only Butyl Tape can be used with Brite-Ply membrane to assure proper seal.

11. Install lap sealant (501-LS) using a 1/4" to 3/8" bead, as follows:

- A. Bridging the membrane on all appliances.
- B. Both ends of the front and rear termination molding.
- C. Top edge of side roof edge molding.
- D. All screw heads located on the roof.

NOTE: Do not use silicone – it will not adhere to the EPDM rubber.

12. Clean all surplus caulk and debris from the roof.

NOTE: If the unit has a fiberglass or metal side radius cap, a bonding adhesive may be used in these areas. Normally, pulling the membrane tight under the side edge roof molding will be sufficient. If you determine a bonding adhesive is necessary, please call Dicor for additional information.