

## **SURFACE PREPARATION**

### ***Wood Deck***

- Positive drainage is required (minimum recommended 1/16' per 1').
- Existing Deck: Apply 1/2" A-C grade pressure-treated plywood as a subfloor.  
New Deck: Apply 3/4" A-C grade pressure treated plywood.
- All screws shall be flush with or countersunk in the plywood surface being fastened to joists/supports.
- Cover all surface flaws, seams, etc. with drywall joint compound (allow plenty of time to dry); sand and smooth prior to installing DeckRite membrane.
- Clean and prep the surface on which the DeckRite membrane will be applied.
- Applications on wood decks can use either DeckRite water-based or solvent-based adhesives. Solvent-based must be used on vertical surfaces. Follow manufacturer installation instructions on adhesive selected.

### ***Concrete Deck***

- When applying DeckRite membrane to concrete, make sure surface is smooth and clean. Any cracks (larger than hairline) or uneven areas need to be filled with some type of concrete patch (Quikrete). Allow sufficient time for patch to dry.
- Clean and prep the surface on which the DeckRite membrane will be applied.
- Applications on concrete surfaces require DeckRite solvent-based adhesive.

## **MEMBRANE INSTALLATION**

### ***Wood Deck***

- DeckRite membrane comes in 68" X 90' (510 s/f) rolls.
- Pre-cut material into proper lengths.  
\*Important to recheck the deck measurements before you cut.
- DeckRite membrane should be laid with seams parallel to the longest dimension of the deck and perpendicular to the slope.
- Plan for 2"- 4" of membrane up walls and over all outer edges for termination.
- Certain details may require more than 2"- 4".
- Plan membrane layout so membrane pieces are installed from the lowest point of the deck to the highest so that seam overlaps will allow for better run-off like a shingled roof.
- A 1" overlap is required between DeckRite membrane pieces to allow for proper hot air seaming.

**TAKING TIME TO LAYOUT THE DECK UP FRONT WILL SAVE TIME  
AND MATERIALS LATER!**

**NOTE: A contractor experienced in the installation and application of DeckRite or similar products is recommended to install the membrane and hot air weld all seams.**

- After the substrate is prepared and the layout for the DeckRite membrane is determined, using a tape measure and a marking pencil, place guide marks approximately every 4' down the length of the deck at the desired point where the membrane should track.
  - \*A chalk line is another option; however, excessive amounts of chalk can contaminate the seaming area. (Use white chalk and pre-snap the chalk line to remove excess chalk).
- Deck surface should be swept or blown clean of any foreign objects prior to membrane installation.
- If applicable, pre-cut membrane around any posts or deck surface penetrations.
- Roll out the first sheet of membrane to install and position it according to the predetermined guide marks or chalk lines. Confirm extra membrane at walls and deck edges.

#### **ADHESIVE APPLICATION**

- Once positioned, fold back approximately half of the membrane sheet, and apply adhesive to the plywood. Follow manufacturer instructions for adhesive application. It is imperative that no adhesive gets on the one inch overlap where seaming takes place.
  - \*If the piece of DeckRite material is longer than 30 feet (i.e. 45 feet), apply adhesive in three separate 68" X 15' sections. A long handle paint roller is used to apply the adhesive to the plywood.
  - \*DeckRite's water-based adhesive coverage rate is 120 – 150 sq. ft. of surface area per gallon and 325-375 sq. ft. per 3-gallon pail.
- After the adhesive is applied to the 68" X 15' area, immediately unfold the membrane and walk it out over adhesive, slowly feeding it out until it is adhered.
- Using a stiff-bristled push broom sweep over the area to make sure there is continuous contact with the adhesive, and to remove any air bubbles. Move to the end of the piece of membrane that is not glued and fold it back until you reach the area where the glue has been applied. Repeat the adhesive application procedure with the remaining membrane.
  - \*Take care not to step in adhesive and walk on membrane surface. Immediately clean off any adhesive that gets on the surface of the membrane with a wet rag.
- Complete the adhesive application procedure and membrane installation until the entire length is installed.
- Take pre-cut lengths of DeckRite termination bar and place around the perimeter of your deck. Using an electric drill, place the term bar (caulk lip facing down and away from deck) against the bottom edge of the membrane and drill the color-coated screws to fasten it securely to the deck. Coated metal drip edge is also an approved perimeter detail. Follow manufacturers recommended installation procedures for the desired perimeter detail.
- Membrane can either be rolled up behind siding and sealed with a bead of caulk or flashed any number of ways against the exterior wall.
  - \*Contact DeckRite for details or suggestions.

**HOT-AIR WELDING**

- Use an approved hot air gun (Leister, Steinel) with a 40mm tip and a silicone roller to weld the seams. Allow the heat gun adequate time to warm up. Set rheostat control to #7 to begin hot air welding. The rheostat may require additional adjustments.
  - \*Test on scrap material before welding seam.
  - \*The membrane has a welding temperature of 450 – 500 degrees F; however, a proper weld is accomplished through the appropriate combination of heat setting and speed of welding.
- Place the tip in between the two pieces of membrane to be welded together and leave about an eighth of an inch of the tip showing. Slowly and steadily slide the hot air welder toward you with one hand while you follow closely behind with the silicone roller (parallel to the tip) in the other hand.

***Concrete Deck***

- Applications on concrete decks require the use of DeckRite’s solvent-based contact adhesive that is applied to the membrane as well as the substrate.
- All procedures when applying DeckRite to concrete (except for the type of adhesive used and how it is applied) are the same.
- Wait until the solvent-based adhesive is tacky to the touch (approximately 10-15 minutes depending upon weather conditions) before applying membrane to substrate.
- The solvent-based adhesive will cover approximately 250-300 square feet per 5-gallon pail.

***Tools***

|                          |                          |                      |
|--------------------------|--------------------------|----------------------|
| Utility knife            | Long Handle Roller Frame | 1.5” Silicone Roller |
| Scissors                 | Caulk Gun                | Hot Air Welding Gun  |
| Measuring Tape           | Chalk Line               | Extension Cord       |
| Stiff Bristle Push Broom | Skill (or Miter Box) Saw | Drill or Screwdriver |
| Small Nap Paint Roller   | Straight Edge            | Old Rags             |
|                          | Hammer                   |                      |

***Materials***

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|--|--|
| DeckRite Materials:  | Other Materials:   |
| DeckRite membrane, adhesive, caulk, termination bar, and color coated screws | Plywood, concrete patching material (Quikrete), drywall joint compound |

***\*\* Please do not hesitate to contact us at DeckRite (888-450-3325) or your independent DeckRite Representative if you have any questions about the installation process.***