



4595 W. Jacquelyn Avenue, Fresno, CA 93722 • Tel:559-275-9620 • Fax:559-275-9629

## **Walkable Deck System- Plywood**

**Objective: to create a walkable deck system using Rubber Coat and Acritech**

### **General:**

The following is a general application procedure for PermaDri's Rubber Coat and Acritech when applied over a plywood substrate. Each project will have special conditions and these should be identified and addressed separately from this general application. For any details not covered in this application procedure, please contact PermaDri Inc. before proceeding.

### **Submittals:**

1. Product literature, samples and MSDS provided upon request.
2. Samples, data sheets and MSDS sheets must be submitted to PermaDri of all materials not supplied by PermaDri and must be pre-approved by PermaDri prior to job start.

### **Preparation:**

1. Make sure you read and follow PermaDri's recommendations for the selection and installation of the plywood. Our coatings are only intended to be used by experienced, licensed coating contractors.
2. Make sure deck is free of dust, oil, and debris. Make sure deck is supported and fastened as follows. Plywood edges must be supported with lumber to allow all edges to be fastened. Use non-rusting screws with countersunk heads, hot dipped galvanized nails, or deformed shank nails only. Nails shall be 8d for  $\frac{3}{4}$ " (1.9 cm) plywood or less and 8d for  $\frac{7}{8}$ " (2.22 cm) or more. Space fasteners 6" (15.24 cm) OC along panel edges and 12" (30.48 cm) OC along intermediate supports, except 6" (15.24 cm) OC along all supports when span is 48" (121.92 cm). Space 12" (30.48 cm) OC in all directions when installing  $\frac{1}{2}$ " (1.27 cm) on solid substrates. Drive nails flush without indenting the plywood. Automatic nailers that indent the surface shall not be used. Make sure there are no sharp objects. Remove or make flush with deck.
3. Make sure deck is free of standing water and moisture (Damp plywood may lead to blistering of membrane and potential dry-rotting of plywood). A moisture scan is recommended.
4. PermaDri's deck system is a vapor barrier and can be blistered by vapor from trapped water. If interior vapor pressure due to air conditioning or heating will build up against the deck from the under-side, surface venting to relieve pressure should be considered.
5. Make sure the substrate has adequate slope to freely drain. Ponding water will damage installation. PermaDri coatings cannot be used to create slope or level the substrate.

**Application: Rubber Coat and Polyester Fabric\***



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1. For plywood deck to wall flashings apply a layer of Rubber Coat on deck and under metal flashing. Fasten flashing to deck making sure fasteners penetrate Rubber Coat every 4-6 inches on center staggered. Apply a layer of Rubber Coat over fastened wall flashing and onto deck. Embed polyester fabric into wet Rubber Coat and saturate polyester fabric. Brush or roll Rubber Coat over polyester fabric. Allow membrane to dry to touch before proceeding.
2. Brush or roll Rubber Coat over deck at the rate of 1 gallon per 100 square feet taking special care to fill in all depressions.
3. Embed polyester fabric into wet Rubber Coat making sure fabric is completely saturated. Note: Embed polyester into all angles, seams, drains, penetrations, wall flashings and thresholds using this same 3-course method.
4. Brush or roll a layer of Rubber Coat over saturated fabric at the rate of 1 gallon per 100 square feet. Allow to dry to touch before proceeding (typically 24 hrs).

Note: Total application rate for Rubber Coat is 2 gallons per 100 square feet (20 mils). It is recommended to do 10-15 foot sections of polyester at a time to allow full saturation, and to avoid rapid Rubber Coat curing.

#### **Application: Acritech and Sand**

1. Brush or Roll Acritech over entire deck at rate of 1 gallon per 100 square feet. Let dry.
2. Brush or Roll Acritech in cross-hatching fashion over entire deck at rate of 1 gallon per 100 square feet. Let dry.
3. Apply Acritech at the rate of ½ gallon per 100 square feet. Embed into wet Acritech #20 mesh sand at the rate of 25 lbs. per 100 square feet. Allow to dry to touch before proceeding (typically 24 hrs).

#### **Application: Top Coat- Acritech**

1. Remove any residual loose sand. Brush or roll Acritech at a rate of ½ gallon per 100 square feet over embedded sand to desired color and let dry.

As an option: after the top layer of Acritech has cured a thin layer of a compatible urethane clear coat may be applied over Acritech.

Note: Total application rate of Acritech is 3 gallons per 100 square feet (30 mils).

Note: Minor blistering is common with water-based products. Most blisters subside over time. Large and unsightly blisters should be cut and repaired with polyester fabric (if necessary) and sealed with coating.

Note: Cure times can be affected by weather conditions. Ideal conditions are 70 F+ and 50% or less humidity. Given ideal conditions normal cure times are 24-48 hours for the full system. Fans and heaters can be used to accelerate the drying/curing process.

\*recommended polyester fabric: TieTex T272