



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

## **Walkable Deck System- Concrete**

**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/Acritech when applied over a concrete 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 before proceeding.

### **Submittals:**

1. Product literature, data sheets, samples and MSDS sheets 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.
3. Our coatings are only intended to be used by experienced, licensed coating contractors.

### **Preparation:**

#### **Concrete Substrate**

1. Surface must be flat and free of irregularities or cracks. Cracks larger than 1/8<sup>th</sup> inch must be filled with a water-based product compatible with Rubber Coat and Acritech. Let dry.
2. Allow concrete to fully cure prior to installation.
3. Power wash concrete and let dry making sure concrete slab is free of dirt, dust, oil, curing compounds, and debris.
4. Make sure the substrate has adequate slope to freely drain. Ponding water will damage the installation. PermaDri coatings cannot be used to create slope or level the substrate.

#### **Ventilation & Water based primer/sealer**

1. Metal decking used as concrete form for structural concrete shall be 'ventilation type' to relieve water vapor pressure underneath the fill.
2. 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.
3. Most concrete surfaces contain porosity capable of transmitting gases. Gas transmission can cause blisters in elastomeric coatings. A water based primer/sealer is recommended to minimize blisters caused by concrete off gassing. Let dry.

*See note below regarding blistering*



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

1. 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.
2. Embed into wet Rubber Coat polyester fabric making sure fabric is completely saturated. Note: Embed polyester into all angles, drains, wall outlets, around all penetrations, steel or wooden handrail posts, wall flashings and thresholds using the same 3-course method.
3. 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 hours).

**Application: Top Coat- Acritech**

1. Remove any residual loose sand. Brush or roll a thin layer of 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 the Acritech.

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

**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.

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.

It is important to note that the presence of blisters demonstrates the membrane is performing and preventing the movement of gasses and moisture through the membrane. Contractor and Owner should discuss the likelihood of blistering, the degree to which blistering may be mitigated, and whether some presence of blistering will be detrimental to the project. For further questions or information about blistering, please contact PermaDri Technical Department.

\*Recommended polyester fabric: TieTex T272  
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