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FLOORING AND SEALER PRODUCTS  
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# Desert Brand Desert Crete Decking System

## TECHNICAL BULLETIN

### Description

Desert Crete Decking System is a fire-retardant walking deck and roof covering system. When installed as specified, the system may be used as a walking surface for most types of exterior floors, decks and stairs that are common within buildings such as **apartments, condominiums, commercial offices** and **single family residences**. Desert Crete Decking System is a multi-step polymer modified cementitious type system that is designed to be covered with a variety of top-finishes. The following specifications describe the procedures that will produce this high quality, water resistant flooring system in a knock-down textured finish.

### Preparation of Sub Floor

Wood sub floor must be of such design and of sufficient soundness, structural strength and rigidity to withstand, without deflection or movement, the maximum surface condition to which the finished floor will be subjected. Wood sub floor must be minimum  $\frac{5}{8}$ " plywood and must comply to all applicable building code requirements in type and installation. It is recommended that sub floor be installed so as to provide 1" fall in average 4' deck ( $\frac{1}{4}$ " to 1"). All slider and door thresholds, jambs, posts, deck edges, scuppers and fascia must be installed with galvanized metal flashing, caulked and primed, in accordance with building code requirements. It is recommended that Desert Crete Metal Nosing with primer, be installed on all deck edgings (no less than  $\frac{3}{16}$ " vertical rise).

### Installation of System

#### 1. Metal Lathing

After all required flashing is in place and primed, thoroughly secure hot dipped galvanized expanded metal lath (2.5 lbs. per square yard) upon the wood sub floor. Lap metal lath sheets together a minimum of 1" and lap all metal flashings with lath up to  $\frac{1}{4}$ " -  $\frac{1}{2}$ " from the vertical riser of the flashing. It is recommended to use galvanized staples, minimum 16 gauge, with wide crown ( $1" - \frac{7}{8}"$ ) by  $\frac{5}{8}"$  long. **Lath must be secured, without any deflection, upon the wood sub floor.** A minimum of 24 staples per square foot, spaced not to exceed one staple per every 6 square inches is recommended. All metal lath lap joints must be secured together with staples no greater than 1 inch apart.

#### 2. First Desert Crete Base Application

Trowel Desert Crete Polybase, thoroughly mixed with water (1 gallon to 50 lb. bag), into the metal lath. Make certain that all holes in the lath are filled to the top of the lath. Allow to dry thoroughly before proceeding (2-3 hours, depending upon conditions).

#### 3. Fiberglass and Bonder 480 Application

Apply  $\frac{3}{4}$  oz. per sq. ft. fiberglass matting to the first Desert Crete Base application. Lap fiberglass 2" over flashings and 1" at seams. Cut fiberglass to fit around posts and drains. Generously apply Bonder 480 into fiberglass matting by using a  $\frac{3}{4}" - 1"$  nap roller at approximately 50 sq. ft. per gallon. Bonder 480 is designed to penetrate and soak through matting; thereby, adhering the matting to the Base surface. Allow to dry thoroughly before proceeding (24 hours, depending upon conditions).

#### 4. Second Desert Crete Base Application

Trowel a second application of Desert Crete Polybase, thoroughly mixed with water (1 gallon to 50 lb. bag), over the dried fiberglass and Bonder 480 to a minimum thickness of  $\frac{1}{16}"$  (see drawing on reverse side). Allow to dry thoroughly before proceeding (2-3 hours, depending upon conditions).

#### 5. Desert Crete Texture Application

Apply Desert Crete Texture (approx. 200 sq. ft. per bag), thoroughly mixed with Desert Crete Liquid Polymer ( $1\frac{1}{4}$  gallons to 50 lb. bag), by pneumatic hopper gun equipped with a  $\frac{1}{8}"$  orifice and a medium setting in the circular spray plate. The recommended air pressure for application is between 30-40 psi. Allow 5-10 minutes before knocking down the splattered texture with a steel trowel. Allow 1-2 hours for drying before proceeding.

#### 6. Concrete/Masonry Floor Paint and Sealer (CMFPS) Application

Apply two coats of pigmented Desert Brand Concrete/Masonry Floor Paint and Sealer (CMFPS). Allow 2-3 hours between coats, depending upon temperature and humidity. Periodically maintain system by applying a coat of pigmented CMFPS.

**50 lbs. of Desert Crete Polybase will cover approximately 50 sq. ft. at 1/8" thick.**

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