



Urethane Polymers International

Application/Specification Data

DEXCELENT

Acrylic/Fiberglass Pedestrian Traffic Coating System

1. PREPARATION

1.1 Plywood:

1.11 All plywood shall be a minimum of ¾ inch thick, B/C or better exterior grade, plugged and filled, finished side up.

1.12 Check all joints. All edges must be blocked and supported. Plywood shall be fastened with deck screws or ring shank nails in accordance with Local Building Codes.

1.13 Check to verify proper slope of ¼" per foot.

NOTE: If the plywood will be exposed to extended periods of weathering, it is recommended that the new plywood be initially treated with a coat of Dexcelent Base Coat #1. This will aid in preventing delamination, deterioration or warping.

1.2 New Concrete:

1.21 Structural concrete shall be cured a minimum of 7 days prior to installation of the DEXCELENT system. Concrete shall be finished with a street trowel followed by a fine broom.

1.22 Curing shall be by means of water cure or pure sodium silicate compounds.

1.23 Check surface for excessive roughness, voids, protrusions or exposed aggregate. Poorly finished concrete will telegraph through the DEXCELENT finish.

1.24 All tooled joints and control joints shall be routed and caulked with a urethane sealant. Structural cracks should be treated with a two-part penetrating epoxy or epoxy grout.

1.25 Concrete surfaces must be initially treated with UI-7012 Epoxy Primer at a rate of 250-350 square feet per gallon prior to application of the DEXCELENT Pedestrian Traffic Coating.

1.3 Old Concrete:

1.31 Clean surface to remove all grease, oil, dust, powder or wax film with TSP or detergent. Rinse with clean water and let dry.

1.32 Concrete with a hard slick surface must be mechanically scarified by either shot blast method or angle grinder and diamond cup set-up. Prime concrete with UI-7012 Primer at the rate of 250-350 square feet per gallon.

NOTE: If the substrate holds water proper drainage must be achieved. Install drains and scuppers where possible, and slope to drain (1/4" per foot) with Level-Crete. See Level-Crete application guide for mixing and installation instructions.

1.4 Existing Systems: DEXCELENT Acrylic / Fiberglass Waterproofing Systems can be installed over many other waterproofing systems. Contact a DEXCELENT representative to find out what options are available for your particular application.

1.5 Crack Repair:

1.51 Minor/Hairline Cracks: Fill with DEXCELENT Patching Compound.

1.52 Medium Cracks (1/16" or greater): Use a two-part semi rigid epoxy. Fill crack with epoxy, when cured, grind smooth.

1.53 Badly Damaged & Spalled Areas: Remove all loose, broken material. Prime area with UI-7012 Primer and fill with Level-Crete Patching and Sloping Material. Smooth to a feather edge.

1.54 Uneven Surfaces Such as Exposed Aggregate Or Salt Finished Concrete: Fill in and level with Level-Crete Patching and sloping Material.

1.55 Above Grade Control Joints & Expansion Joints: Do not bridge opening with fiberglass mat. Apply fiberglass mat and DEXCELENT Base Coat #1 over expansion joint, slice fiberglass at the joint and let the fiberglass fall into the expansion joint. Using a 4" brush, push glass edges down into the joint. Protect joint during texture and topcoat application. When system is complete, install urethane caulk and foam backer rod, if necessary.

1.6 Metal Flashing:

1.61 Metal flashing shall have a bonderized finish (galvanized and etched or primed) and be a minimum 26 gauge.

1.62 Metal flashing shall be fastened every two to three inches with galvanized roof nails. Flashing must be nailed down flat with no buckling.

1.63 Corners must be tight and the entire perimeter must be flashed. All metal flashing must have a minimum 2" overlap at the connecting seams with urethane caulk applied between the joints prior to fastening. Soldering of overlap is also acceptable.

1.64 All joints and seams must be overlaid with 2" wide flat metal flashing. It is recommended that a bead of caulk be placed on the plywood and the metal flashing seated into the caulk. Remove excess caulk with a broad blade knife.

1.7 Stair Nosing: Stair nosing is recommended on all stairs and landings to minimize wear. The stair nosing should be installed into a bed of urethane caulk so as to seal around the fastener penetrations. Install the stair nosing after the DEXCELENT membrane is installed but prior to the texture and final coat application.

2. APPLICATION OF FIBERGLASS AND DEXCELENT BASE COAT

2.1 Fiberglass and DEXCELENT Base Coat Preparation:

2.11 With DEXCELENT Patching Compound, patch all joints, knotholes, cracks and other imperfections in the plywood as well as deck to metal seams of the flashing. Do not build up Patching Compound greater than 1/8". In areas requiring sloping or fill greater than 1/8", use Level-Crete. For thickness greater than ½ inch it is recommended to reinforce Level-Crete with galvanized, expanded metal lath.

2.12 DEXCELENT Base Coat hides only small imperfections, so care must be taken to assure the surface is completely clean, free from all dirt, oil, grease, old coatings and debris.

2.13 A bead of polyurethane caulk or Uraflash Detail Membrane can be used at the wall to deck interface to soften the angle.

2.2 Fiberglass and DEXCELENT Base Coat Application: To ensure proper adhesion, surface must be dust free and clean of debris, wax, dirt and oil.

2.21 Cover deck surface with fiberglass mat.

2.22 Butt the edges of the fiberglass together. Do not overlap.

2.23 Fiberglass should cover the edge of the flashing, terminating ½" from outside edge. If necessary, fiberglass may be turned up the metal flashing or down the fascia edge for extra protection.

2.24 With a 4" brush, generously apply the DEXCELENT Base Coat around the perimeter of the deck. It is essential that the material cover all the flashing at the walls and doorjamb.

(NOTE: Do not cut in entire deck edge at one time. For best results, cut in 5-6 feet at a time, making sure that you roll out the center immediately, always going wet coating into wet coating. This process will eliminate wrinkles in the glass as you apply the DEXCELENT Base Coat.)

2.25 With a ¾" nap roller, apply DEXCELENT Base Coat at a rate of 40-50 square feet per gallon.

2.26 Laminate center of section by pouring approximately ½ gallon of DEXCELENT Base Coat on top of fiberglass.

2.27 Using moderate pressure, work puddle of DEXCELENT Base Coat into the fiberglass mat, until thoroughly saturated. DEXCELENT Base Coat must penetrate through mat and into the substrate.

2.28 Roll puddle towards you. Before moving to the next section of the deck, roll down bubbles and wrinkles, and bring a little resin to top of glass for a pinhole free membrane.

2.29 Allow material to dry approximately 4-6 hours before the Texture Coat. Dry times may vary.

TIP: Base coat can also be troweled and back rolled for a more controlled application.

(NOTE: Be conscious of the amount of material you are using. DEXCELENT Base Coat is a low viscosity material, and it may have a tendency to run. Be generous with this material, and be sure to apply enough pressure on the roller or trowel to force the material through the fiberglass mat. However, be careful not to over roll. Continually, rolling back and forth will cause the fiberglass mat to stretch and break apart.

MORE TIPS**DO NOT DRY ROLL:**

Dry rolling is dipping roller into the pail of coating and rolling out instead of pouring material onto deck. Resin will not penetrate fiberglass or bond to the surface of the deck. Dry rolling causes pinholes and air bubbles.

2.3 Bubbles: While wet, if there is foreign matter under fiberglass causing a bubble, cut an X into wet fiberglass, open and remove it. Brush or roll the strands back down.

2.4 Wrinkles: While wet, wrinkles can be repaired by using a utility knife and cutting directly across top of wrinkle, and applying more material over the area.

2.5 Deck Drains & Scuppers: Use sheet metal flanged drains and scuppers with a flange width of 3" or more. Terminate fiberglass edge approx. ½" from opening to ensure edge of glass is securely bonded to metal flange. For proper drainage, drain, scupper, and grate should be lower than deck surface. Do not use plastic drains or scuppers.

2.6 Detailing Fiberglass: After fiberglass mat has been laminated and allowed to dry, surface must be detailed before proceeding with texture application. Use DEXCELENT Patching Compound to patch seams, feather down edges of fiberglass and correct any other defects on laminated surface.

2.61 Hollow Spots and Bubbles: Suspect areas will usually have a large number of pinholes in the area of the bubble. Coating may even appear to be raised. Tip: A push broom is an excellent way to locate hollow spots.

2.62 Small Bubbles: Bubbles no larger than a half a dollar can be cut out, patched and feathered out with two thin coats of DEXCELENT Patching Compound

2.63 Large Bubbles: Large unbonded areas should be completely removed and re-fiberglass.

a. Lay a piece of fiberglass mat over area to be removed. The piece should be a little larger than what is being removed.

b. Double cut through both pieces of fiberglass mat.

c. Replace bad piece with new piece of fiberglass mat. It should fit perfectly.

d. Laminate patched in piece of fiberglass with paintbrush. Let dry.

e. Patch and feather repair with DEXCELENT Patching Compound.

2.64 Wrinkles: After DEXCELENT Base Coat has dried, wrinkles can be repaired by shaving down top of wrinkle until it is flush with deck's surface. This can be achieved by using a 4" wide razor scraper. Fill in and feather with two thin coats of DEXCELENT Patching Compound.

2.65 Patching Seams: Fill gap between the two pieces of fiberglass by applying two thin coats of DEXCELENT Patching Compound with large broad blade putty knife. Squeegee each coat on. Avoid creating a hump over seams.

2.66 Edges: On decks with flashing on the outer edges, fiberglass should stop 3/8-1/2" back from outside edges. Feather all edges of fiberglass to edge of deck with DEXCELENT Patching Compound.

3. APPLICATION OF DEXCELENT COAT #2 (TEXTURE)**3.1 DEXCELENT Coat #2 (Texture) Preparation:**

3.11 Use a blower to clean the surface of any dirt or debris.

3.12 Double-check patching of fiberglass seams (no seams visible).

3.2 DEXCELENT Coat #2 Application (with Hopper):

3.21 With tape and paper, mask off walls, railings, sliding doors, etc.

3.22 Set the air pressure on the compressor between 8-15 pounds per square inch (the higher the pressure, the finer the texture). Spray a little texture on a piece of cardboard or paper to check pattern of spray. Adjust gun and air pressure until you achieve desired pattern.

3.23 Starting with the perimeter of the deck, begin to apply Dexcelent Texture Coat #2 at a rate of 85 square feet per gallon. Move the pattern pistol as evenly as possible to create a uniform spray and texture. Avoid spraying thick and thin spots.

3.24 Allow material to dry approximately 4-8 hours. Dry times may vary.

3.3 DEXCELENT Coat #2 Application (with Roller):

3.31 With a 4" brush, apply DEXCELENT Texture Coat #2 around the perimeter of the deck and drains. It is essential that the material covers flashing at the wall and doorjamb, but it is not necessary to take it over the fascia edge. With a ¾ nap roller, apply DEXCELENT Texture Coat #2 at a rate of 75 square feet per gallon.

3.32 Dip roller into pail and roll or "slurry" the texture in a non-conforming pattern while maintaining thickness consistency and complete coverage of fiberglass without thick and thin spots.

3.33 This method should be performed in indirect sunlight for best results.

3.34 Allow material to dry approximately 4-8 hours. Dry times may vary.

NOTE: When rolling DEXCELENT Texture Coat #2 on hot days or hot surfaces, material will begin to cure quickly. Apply the material and then leave alone. "Touch ups" should be completed after the material has dried.

3.4 DEXCELENT Coat #2 Application (with Trowel): Texcrete Texture Coat can be used and applied as a skim coat approx 1/16" to 1/8" thick. Avoid trowel marks by slicking the trowel with a wet sponge.

4. APPLICATION OF DEXCELENT FINAL TOP COAT**4.1 DEXCELENT Final Top Coat Preparation:**

4.11 With a wallboard razor, lightly scrape off any irregularities in the texture.

4.12 Use a blower to clean the deck surface of any remaining dirt or debris.

4.2 DEXCELENT Final Top Coat Application:

4.21 With a 4" brush, apply DEXCELENT Final Top Coat around the perimeter of the deck and drains. The material should cover all flashing at the walls, doorjamb, and fascia edges.

4.22 With a 3/4" nap roller, apply DEXCELENT Top Coat in one or two thin coats, at a rate of 100-125 square feet per gallon.

4.23 Allow material 4-16 hours to dry before light traffic. Allow completed system to cure 24 hours before heavy foot traffic is permitted and an additional 72 hours before heavy objects are placed on the surface.

CAUTION: Cold or inclement weather will effect the cure time of all DEXCELENT products. Do not apply when temperatures will drop below 50°F before the DEXCELENT t products can cure and do not install over wet substrates or if the threat of rain exists within 24 hours. Do not apply DEXCELENT t in direct sun at temperatures above 90°F since acrylics will dry too rapidly and may form pinholes.