Excel-Coat K/D (K/D II also included) Guide Specification

Decorative Protection for Concrete

NOTES TO SPECIFIER: This is a general specification which includes the various finishes that may be achieved with Excel-Coat K/D products. The K/D refers to a Knock-Down finish.

"K/D II" includes the Tape and Trowel, Tape Trowel & Skin and the Stamping. When specifying these finishes you will want to reference "K/D II and then select the appropriate finish Materials in Section 2.01 and the corresponding Installation in Section 3.02.

PART I - GENERAL

1.01 SYSTEM DESCRIPTION

A. The Excel-Coat K/D (or K/D II) system is designed to be a colorful, decorative, skid resistant coating to protect and beautify pool decks, concrete walkways, patios and entryways.

1.02 SCOPE

A. Work Included
   1. Preparation of substrate.
   2. Preparation of cracks and joints.
   3. Application of the Excel-Coat K/D (or K/D II) System.

B. Related Work Specified Elsewhere
   1. Concrete Finishing Division 3
   2. Sealants Division 7

1.03 QUALITY ASSURANCE

A. The materials that compose the Excel-Coat K/D (or K/D II) System are manufactured and furnished by Excellent Coatings International.

1.04 SUBMITTALS

A. Samples: Applicator must provide a 2" x 2" sample board showing design, texture and color for approval.

B. Product Data: Provide manufacturer's written data sheet, detail drawings, maintenance instructions and cleaning instructions.

1.05 DELIVERY, STORAGE & HANDLING

A. Delivery: Materials shall be delivered to the job site in sealed, undamaged containers. Each container shall be clearly marked with manufacturer's label showing type of material, expiration date, color and batch number.

B. Storage: Store all Excel-Coat materials in a cool dry place with a temperature range of 55°F to 9O° F.

C. Handling: Handle all products carefully to avoid damage to the containers. Read all labels and Safety Data Sheets prior to use.

1.06 PROJECT JOBSITE CONDITIONS

A. Before any work is started, the applicator shall inspect all surfaces for any deficiencies. Should any deficiencies exist, the Architect, Owner or General Contractor shall be notified in writing and any corrections necessary shall be made.

B. No coating shall be applied during inclement weather or when the temperature falls below 55°F or rises above 95°F.

1.07 WARRANTY

A. A warranty for the Excel-Coat K/D (or K/D II) System is available upon request from the Owner or Owner's Representative prior to the installation of the deck coating system. Once all inspections (before, during and after the installation) have been completed, Excellent Coatings International will issue a written warranty and maintenance program. This warranty covers the product performance of the deck coating only. Liability for damage to property, buildings, and their contents or to any third party is specifically excluded.

PART 2 - PRODUCTS

2.01 MATERIALS FOR THE SYSTEM (select accordingly)

A. Excel-Coat K/D Knock-Down System

1. Primer: Excel-Coat Primer
2. Slurry Coat: Excel-Crete K/D & Tinted Additive
3. Texture Coat: Excel-Crete K/D and Excel-Crete Tinted Additive (add Excel-Crete Retarder as needed)
4. Top Coat: Excel-Coat K/D Color Sealer, Excel-Coat Clear Top Coat

B. Excel-Coat K/D II Tape & Trowel System

1. Primer: Excel-Coat Primer
2. Slurry Coat: Excel-Crete K/D & Tinted Additive
3. Texture Coat: Excel-Crete K/D and Excel-Crete Tinted Additive (add Excel-Crete Retarder as needed)
4. Excel-Coat MERT Sealer
5. Excel-Coat Antiquing Powder(s) and Release Agent (optional)
6. Top Coat: Excel-Coat Glaze or Excel-Coat Clear Top Coat

C. Excel-Coat K/D II Tape, Trowel & Skin System

1. Primer: Excel-Coat Primer
2. Slurry Coat: Excel-Crete K/D & Tinted Additive
3. Texture Coat: Excel-Crete K/D and Excel-Crete Tinted Additive
4. Excel-Crete Retarder
5. Excel-Coat Fibers
6. Excel-Coat MERT Sealer
7. Excel-Coat Release Agent
8. Excel-Coat Antiquing Powder(s)
9. Top Coat: Excel-Coat Glaze or Excel-Coat Clear Top Coat

D. Excel-Coat K/D II Stamping System

1. Primer: Excel-Coat Primer
2. Slurry Coat: Excel-Crete K/D & Tinted Additive
3. Texture Coat: Excel-Crete K/D and Excel-Crete Tinted Additive
4. Excel-Crete Retarder
5. Excel-Coat Fibers
6. Excel-Coat Release Agent
7. Excel-Coat Antiquing Powder(s)
8. Top Coat: Excel-Coat Glaze or Excel-Coat Clear Top Coat

E. Related Materials

1. Urethane Sealant
2. Excel-Coat Patching Compound
3. Epoxy Crack Repair Material

PART 3 - EXECUTION

3.01 INSPECTION

A. General

1. Concrete surface shall be free of excess roughness, voids, protrusions, loose particles, dust or debris. Poorly finished concrete may telegraph through the Excel-Coat K/D (or K/D II) System.

2. Concrete surface must be free from curing agents, bond-breakers, hardeners, oils, grease or foreign matter that may affect the adhesion of the Excel-Coat K/D (or K/D II) System.

3. Concrete substrate shall be designed and constructed as to freely drain and eliminate the ponding of water. Slope: 1/4" per foot.

4. Concrete moisture content shall not exceed 10%. Moisture Vapor Transmission shall not exceed 5 lbs. per 1,000 square feet per 24 hours.

B. New Concrete

1. Curing of concrete shall be by means of water-cure or dissipating compounds. Curing compounds to be used shall be approved by an authorized representative of Excellent Coatings International.

2. Concrete shall be cured a minimum of 28 days prior to installation of Excel-Coat K/D (or K/D II) System.

3. Concrete shall be finished with a power metal float followed by a light steel trowel and fine-medium hair broom or equivalent.

4. Concrete moisture content shall not exceed 10%. Moisture Vapor Transmission shall not exceed 5 lbs. per 1,000 square feet per 24 hours.

C. Old Concrete

1. The following are effective means of cleaning and preparing old concrete prior to the application of Excel-Coat K/D (or K/D II):

a. Surface Grinding: A heavy duty, industrial grinder may be used to clean and abrade the concrete when the surface is dry. Loose particles and dust must then be removed by vacuum or blower.

b. Shot Blasting and Sand Blasting: These are both effective means of cleaning concrete surfaces. Before coating, area must be free from dust or any loose particles.

c. Acid Etching: A solution of commercial muriatic acid and water (3 parts water: 1 part muriatic acid) is also a satisfactory method of cleaning concrete. Pour solution over concrete surface and agitate with stiff bristle broom or brush. The solution will react with the concrete causing it to bubble. Once the bubbling has stopped, power wash the deck with water to rinse away residual salts and contaminants. To ensure complete neutralization of the concrete surface, the deck may be brushed with alkali solution (1% ammonia in water) and then rinsed.

d. Commercial Detergents: Commercial detergents, such as Trisodium Phosphate (TSP), will work well to clean light grease and grime, but these products are not recommended for heavy contamination.

D. Concrete Patching

1. Repairs to old or new concrete may be necessary to correct minor imperfections in the surface (i.e. low spots, holes, ridges and protrusions).

2. All repair areas shall be cleaned as described above, then filled with Excel-Crete Patching and Sloping Compound for repairs less than 1/8 inch in thickness. Refer to Excel-Crete Data Sheet for repairs that are greater than 1/8 inch in thickness. Excel-Crete repairs shall cure for a minimum of 24 hours prior to Excel-Coat K/D (or K/D II) system application.

3. Small spalled areas may be repaired with a two-part semi-rigid epoxy.

E. Expansion Joints & Cracks

1. Expansion joints shall be cleaned thoroughly and sealed with urethane sealant.

2. Cracks over 1/16“shall be routed, primed and repaired with an epoxy crack repair material.

3.02 INSTALLATION (Select Installation for appropriate system that is to be used. Selection shall correspond with 2.01)

A. Excel-Coat K/D Knock-Down Finish: Read and follow instructions in manufacturer’s Application Guide.

1. Apply Excel-Coat Primer to concrete at a rate of 350 square feet per gallon.

2. Slurry Coat: Using a drill motor mix Excel-Crete K/D with Excel-Crete Tinted Additive. Apply with a trowel to consistence thickness approximately 1/16 “. Allow material to dry 2- 6 hours. Dry times may vary.

3. Mix texture coat and apply using a hopper. To create a knock-down finish, follow the texture application with a steel finishing trowel. Careful and consistent measuring of products helps to ensure color uniformity. Excel-Crete Retarder

may be added to mix to prolong workability of product in the hopper. For best results, allow the texture to begin to dry (1-15 minutes) before knocking down with trowel. Allow 24 hours to dry.

4. With a wallboard scraper, lightly scrape off any irregularities in the texture. Use a blower to clean the deck area of any remaining dirt or debris.

5. Apply two thin coats of Excel-Coat K/D Color Sealer, Excel-Coat Glaze or Excel-Coat Clear Top Coat by roller or airless sprayer at a rate of 250 square feet per gallon per coat, for a net yield of 125 square feet per gallon total coverage. Allow 4 hours to dry before applying second coat.

6. 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.

B. **Excel-Coat K/D II Tape and Trowel:** Read and follow instructions in manufacturer's Data Sheet / Application Guide.

1. Apply Excel-Coat Primer to concrete at a rate of 350 square feet per gallon.

2. Slurry Coat (Grout Coat): Mix Excel-Crete K/D with Tinted Additive. Apply with a trowel to a thickness of approximately 1/16-1/8 inch in thickness. Allow material to dry 2- 6 hours. Dry times may vary.

3. Place and apply stencil or tape patterned. Ensure stencil or tape is properly adhered.

4. Mix Excel-Crete with Tinted Additive. Excel-Crete Retarder may be added to extend workability time. Apply texture coat over the taped surfaces. Coverage will vary depending upon the type of texture that is being applied. Allow material to dry.

5. Apply Antiquing or Excel-Crete Tinted Additive to highlight as needed to match approved sample. Allow highlighting to thoroughly dry.

6. Carefully remove grout tape once Excel-Crete has cured. Use a grinding stone to smooth edges and/or rough spots.

7. Apply two thin coats of Excel-Coat Glaze or Excel-Coat Clear Top Coat by roller or airless sprayer at a rate of 250 square feet per gallon per coat, for a net yield of 125 square feet per gallon total coverage. Allow 4 hours to dry before applying the second seal coat.

8. 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.

C. **Excel-Coat K/D II Tape, Trowel & Skin:** Read and follow instructions in manufacturer's Data Sheet / Application Guide.

1. Apply Excel-Coat Primer to concrete at a rate of 350 square feet per gallon.

2. Slurry Coat (Grout Coat): Mix Excel-Crete K/D with Tinted Additive. Apply with a trowel to a thickness of approximately 1/16-1/8 inch in thickness. Allow material to dry 8 hours hours. Dry times may vary.

3. Place and apply stencil or tape patterned. Ensure stencil or tape is properly adhered.

4. Apply MERT Sealer to seal tape or stencil and two inches on either side. Allow protective seal coat to dry 1-2 hours.

5. Thoroughly mix Excel-Crete K/D with Excel-Crete Tinted Additive, Excel-Crete Retarder and Excel-Coat Fibers. Apply texture coat to a workable amount of area over the taped surfaces. Coverage will vary depending upon the type of texture that is being applied. This application shall be a minimum of 1/8" when using skins.

6. Lightly spray Excel-Coat Release Agent onto textured side of skin(s).

7. Place skin and using pounder or linoleum roller ensure desired impression is made then remove promptly. Continue this process over the area to receive coating. Allow texture Excel-Crete to cure.

8. Apply Antiquing Powder mixed with Release Agent or Excel-Crete Tinted Additive to highlight as needed to match approved sample. Allow highlighting to thoroughly dry.

9. Carefully remove grout tape once Excel-Crete has cured. Use a grinding stone to smooth edges and/or rough spots.

10. Apply two thin coats of Excel-Coat Clear Top Coat by roller or airless sprayer at a rate of 250 square feet per gallon per coat, for a net yield of 125 square feet per gallon total coverage. Allow 4 hours to dry before applying the second seal coat.

11. 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.

D. **Excel-Coat K/D II Stamping:** Read and follow instructions in manufacturer's Data Sheet / Application Guide.

1. Apply Excel-Coat Primer to concrete at a rate of 350 square feet per gallon.

2. Thoroughly mix Excel-Crete K/D with Excel-Crete Tinted Additive, Excel-Crete Retarder and Fibers. Apply texture coat to a workable amount of area over the taped surfaces. Coverage will vary depending upon the type of texture that is being applied. This application shall be a minimum of 1/4' when using stamps.

3. Lightly spray Excel-Coat Release Agent onto textured side of stamp(s).

4. Place stamp and using pounder or linoleum roller ensure desired impression is made then remove promptly. Continue this process over the area to receive coating. Allow texture Excel-Crete to cure.

5. Apply Antiquing Powder mixed with Excel-Coat Release Agent or Excel-Crete Tinted Additive to highlight as needed to match approved sample. Allow highlighting to thoroughly dry.

6. Apply two thin coats of Excel-Coat Clear Top Coat by roller or airless sprayer at a rate of 250 square feet per gallon per coat, for a net yield of 125 square feet per gallon total coverage. Allow 4 hours to dry before applying the second seal coat.

7. 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.

3.03 CLEAN UP

A. Clean area and remove all debris upon completion of work. Dispose of empty containers properly according to current Local, State and Federal regulations.

NOTE: *The Excel-Coat K/D (or K/D II) System may be combined with our Excel-Coat Waterproof Systems to provide unbeatable waterproof protection with unlimited decorative possibilities. K/D & K/D II finishes may be applied over Excel-Coat Pedestrian Traffic Membrane (concrete substrates only) and over the Excel-Coat Fire System membrane.*