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## SYSTEM GUIDE SPECIFICATION FOR STAMP OVERLAY SYSTEM S-1050

### 1/8" TEXTURED OVERLAY SYSTEM FOR NEW AND EXISTING CONCRETE

#### Section 09 97 26

This product guide specification is written according to the Construction Specification Institute (CSI) with numbers and titles from the MasterFormat 2004 Edition. This section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building codes. Coordinate this section with other specification sections and drawings. This is the recommended specification for the Super-Krete 1/8" Stamp Overlayment System over Concrete.

Specifier Notes: Bond-Kote® is a cementitious, ready-mixed product used to create a minimal 1/8" thick profile that is to be stamped or textured using various appropriate tools to create a decorative impression. Bond-Kote provides a permanent, co-adhesive bond over structurally sound and properly prepared concrete substrates. The use of this product, however, requires the use of a complete system of products and applications to ensure long-term success against delamination or failures.

#### PART 1 – GENERAL

##### 1.01 SUMMARY

- A. This system is for use over interior and exterior high traffic areas including, but not limited to, residential and commercial interior floors, driveways, patios, pool decks, entry ways, stairs, landings and anywhere a decorative finish is desired without the removal of an existing concrete substrate.

##### 1.02 SECTION INCLUDES

- A. Super-Krete S-12000 Heavy-Duty Degreaser
- B. Super-Krete S-1300 Pene-Krete
- C. Super-Krete S- 300 Super-Quik Repair System (As Required)
- D. Super-Krete S-9300 Bond-Kote (As Required)
- E. Super-Krete S-3500 Elastique Matting (As Required)
- F. Super-Krete S-9304 Micro-Bond (As Required)
- G. Super-Krete S-1710 Liquid Release Agent
- H. Super-Krete S-200 Super-Scrub
- I. Super-Krete S-9500 Color Stain (Optional, Available in 16 Standard Colors)
- J. Super-Krete Sealer of Choice (Will depend on surface use, expected traffic and VOC regulations)

##### 1.03 QUALITY ASSURANCE

- A. Application of Super-Krete Decorative Overlayment System must be applicators certified in writing by Super-Krete International, Inc. to be eligible for coverage under the Super-Krete Limited Product Warranty.
- B. Applicator must apply and file with Super-Krete International, Inc. a copy of the project specifications, certified applicator card and a list of required products, tools and equipment to be utilized on the project prior to application for Super-Krete 5 –Year Limited Product Warranty.



- C. The Super-Krete Decorative Overlayment System can be installed over any structurally sound concrete substrate that is free of any type of curing compound or sealer and of sufficient porosity to provide a penetrating, co-adhesive bond for the system. The Super-Krete Decorative Overlayment System has a compressive strength of 3,000 psi in 24 hours and 6,500 psi in 7 days.
- D. All Super-Krete products must be applied in strict accordance with Super-Krete's written instructions for use and installation of all systems.
- E. The Super-Krete Decorative Overlayment System is a "complete" system designed and engineered for each product to adhere together and are compatible. Using alternative products will jeopardize the integrity of the system.
- F. Super-Krete International, Inc. does hereby certify that it's products and application systems are warranted to perform according to their written specifications.

#### **1.04 DELIVERY, STORAGE AND HANDLING**

- A. Delivery of products shall be in unopened and sealed containers and protected from extreme weather conditions. Liquid products shall be protected from freezing temperatures until mixed and dry goods stored in a dry environment.

#### **1.05 ENVIRONMENTAL REQUIREMENTS**

- A. Apply Super-Krete products only when the surface temperature is at least 55 degrees F and rising with no risk of rain until the surface is completely dried and cured. Do not apply product when temperature exceeds 90 degrees F.

### **PART 2 – PRODUCTS**

#### **2.01 MATERIALS**

- A. The surface cleaning system will be Super-Krete S-12000 Heavy-Duty Degreaser/Cleaner system.
- B. The mandatory moisture vapor reduction and chemical encapsulation treatment shall be a combination of Super-Krete S-1300 Pene-Krete and S-9300 Bond-Kote.
- C. The cementitious repair system shall be S-300 Super-Quik Repair System.
- D. The crack treatment system shall be a combination of S-3500 Elastique Matting and S-9300 Bond-Kote.
- E. The overlayment system shall be S-9300 Bond-Kote no greater than 1/8" thickness.
- F. The liquid release agent shall be S-1710 Liquid Release Agent.
- G. The cleaner used to remove remaining liquid release from the substrate prior to applying colored finish shall be S-200 Super-Scrub.
- H. The staining and coloring system shall be S-9500 Color Stain in specified colors.
- I. The final protective sealer shall be optional depending upon the surface traffic.
- J. For heavy-duty walking areas S-8600 Clear Seal Plus is recommended. For vehicular traffic use use S-8900 Two Part Urethane Sealer, S-8400 Supra-Seal or S-8350 Supra-Seal only. Appropriate sealer to use depends on the VOC regulations of the area.

#### **2.02 MIX DESIGNS**

- A. Super-Krete S-12000 Heavy Duty Degreaser is pre-mixed. Do not dilute. Mix for one minute before use.
- B. Super-Krete S-1300 Pene-Krete is pre-mixed. Do not dilute. Mix for one minute before use.
- C. Super-Krete S-300 Super-Quik Repair System is a (2) component mixture. Mix 1 (Part B) Dry Cement Compound with 2 parts #30 mesh bagged silica sand and mix thoroughly.

- Add (1) part (A) Liquid Activator and mix thoroughly. **IMPORTANT:** The applicator has (3 to 5) minutes to mix, place and finish the repair before the material sets to a hard unworkable state. Mix small amounts to avoid material waste.
- D. Super-Krete S-3500 Elastique Matting shall be cut to the length of the crack.
  - E. Super-Krete S-9300 Bond-Kote is pre-mixed. Add clean water only depending upon desired consistency that will maintain an 1/8" profile when screeded, gauged, or troweled into place and mix thoroughly using a (1/2") drill and mixing paddle. For larger projects use a plaster mixer.
  - F. Super-Krete S-1710 Liquid Release Agent is ready-mixed. Do not dilute.
  - G. Super-Krete S-200 Super-Scrub shall be mixed using (1) part Super-Scrub mixed with (20) parts clean potable water. Mix thoroughly for one minute.
  - H. Super-Krete S-9500 Series Color Stains are pre-mixed. Do not dilute. Mix material well to bring settled pigment into proper color and consistency.
  - I. The Super-Krete protective clear sealer used will depend upon the expected surface traffic. Refer to Super-Krete Specification S-2 Selecting the Right Sealer for mixing instructions.

### **PART 3 - EXECUTION**

#### **3.01 PREPARATION**

- A. All cementitious substrates must be structurally sound, solid and of adequate porosity to provide product penetration and a co-adhesive bond.
- B. The substrate shall be clean and free of any surface contamination that may create a bond-breaker and prevent product from penetrating the surface and providing a co-adhesive bond.
- C. Substrates shall be pre-tested to determine the rate of moisture vapor transmission using testing procedure ASTM F1869. Rate of moisture vapor transmissions shall not exceed 3 lbs per 1,000 sf feet after Pene-Krete treatment.
- D. When applying Super-Krete Portland cement based underlayments and toppings the surface will require a lightly dampened surface to open the pores of the substrate to achieve a co-adhesive bond, to dissolve fine dust particles and provide additional workability.
- E. All large cracks and broken concrete areas shall be pre-patched using the S-300 Super-Quik Repair, S-3500 Elastique Matting and S-9300 Bond-Kote.
- F. Clean out, repair and honor all expansion joints during entire application process. Note: Verify that the substrate to be coated is honored with proper expansion joints placement. Add additional expansion joints as needed to relieve stress on any substantial cracking.
- G. Allow all repairs to cure for twenty-four hours before applying overlayments or toppings.

#### **3.02 APPLICATION OF MOISTURE BARRIER**

- A. Saturate the dry cementitious substrate with S-12000 Heavy Duty Degreaser. Apply by sprayer, and work the cleaner into the surface with a stiff bristled broom. Allow Heavy Duty Degreaser to set and etch the surface for approximately 30 minutes. Rinse exterior surfaces with a waterblaster, and rinse with a mop and clean water in interior areas. Approximate coverage rate is 300 sf per gallon when applied by sprayer.
- B. When dry, saturate the substrate with S-1300 Pene-Krete for internal waterproofing and chemical encapsulation. Apply using a Hudson-type sprayer and soft bristled broom. Saturate the substrate and work Pene-Krete into the surface with the broom, not allowing material to puddle on the surface. Wait one hour, and saturate the treated surface with clean water. Repeat wettings three times at one hour intervals. Note: Pene-Krete must penetrate the substrate or a bond breaker will be formed on the



surface and coating delamination will occur. Allow treated surface to cure 24 hours, followed by waterblasting or for interior floors, rinse with mop and clean water.

### **3.03 APPLICATION OF BOND-KOTE OVERLAYMENT**

- A.** Mix S-9300 Bond-Kote with water only to the desired consistency for hand troweling or gauge rake application. Lightly dampen surface with clean water to open the pores of the substrate and immediately spread the mixed Bond-Kote material over the surface at 1/8" thickness.
- B.** Apply Super-Krete S-1710 Liquid Release Agent to both the surface and the texture mat by spray application only. Place the mats upon the surface and walk or tamp the mats to create the underlying texture. Continue to spray the surface only with Liquid Release Agent and place the mats onto the surface. Note: If material attaches to the mats when removing after making the impression, the surface is either still too wet to stamp or an additional even spray of Liquid Release Agent must be applied. Bond-Kote is high in solids and conventional release agents will not work with the Super-Krete system. Use only Super-Krete Liquid Release Agent when stamping. Continue applying Liquid Release Agent and stamp the surface until finished. Allow the overlayment to cure 24 hours before detailing.
- C.** Detail the surface using conventional hand tools. Minor touch ups may be made using Super-Krete S-9304 Micro-Bond. For best results, sand the entire surface using a floor sander to remove any high areas or tripping hazards.
- D.** When surface has cured, apply Super-Krete S-200 Super-Scrub to the surface by pouring or spraying and scrub the surface using a soft bristled broom. This will remove the excess release agent from the surface. Rinse thoroughly with clean water.

### **3.04 APPLICATION OF COLOR STAIN**

- A.** The surface shall always be dampened with a light mist of water prior to applying Color Stain. Pre-dampen the textured surface with clean water and spray apply the desired base color of S-9500 Color Stain. Immediately work the stain into the overlayment for penetration with a soft bristled broom or other tool. Remove any pooling areas using a soft bristled broom and allow Color Stain to completely dry. When the base color is dry, spray a light mist of water over the base color and apply the second or darker color. Work Color Stain over the surface uniformly only once and allow Color Stain to move to the low or rough textured areas. Multiple applications of Color Stain can be made for high lighting or achieving a specific appearance. Allow one hour between color-stain application when applying product over exterior surfaces or until dry to the touch. For interior surfaces allow four to six hours between applications.

### **3.05 PROTECTIVE SEALING**

#### **A. SEALING EXTERIOR WALKING SURFACES**

- a.** For exterior walking surfaces, Super-Krete recommends S-8600 Clear Seal Plus for use as a protective sealer. Apply Clear Seal Plus by sprayer only and work into the surface using a soft bristled broom. Do not allow material to puddle upon the surface. If pooling occurs remove immediately by spreading with a soft bristled broom. Two applications of Clear Seal Plus are recommended for best results. Allow each sufficient drying time between applications. Apply additional application when surface is dry to the touch or no longer tacky to the touch. Super-Krete Super-Grit can be broadcasted into the final application for exterior anti-slip treatment.



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## **B. SEALING INTERIOR & EXTERIOR HEAVY TRAFFIC SURFACES**

- a. For interior and exterior surfaces, and where vehicular traffic or high foot traffic is present (such as but not limited to interior floors, garages, driveways, commercial and industrial surfaces) Super-Krete recommends either S-8900 Two Part Urethane Sealer, S-8400 Supra-Seal II or S-8350 Supra-Seal I. The appropriate sealer shall be determined by the VOC regulations of the area of installation. Refer to Super-Krete specification S-2 Selecting the Right Sealer for application instructions on all of these sealers.

### **3.06 FIELD QUALITY CONTROL**

- A. Super-Krete products are available as ready-mixed pre-packaged goods that require minimal mixing (add water only) or are ready to use as packaged. This provides excellent quality field control when mixing and applying product. Ready-mixed products allow the field superintendent or architect to properly estimate the proper amount of material to be used based upon the coverage rate of each unit or product.
- B. For testing of product Super-Krete International, Inc. will provide a un-opened pre-packaged container of the required product to be tested by a independent laboratory specializing in the required test procedures. Since the repair and overlay systems contain Portland cement in either white or gray color the use of a white based overlayment should be used when applying pastel colored Color Stains and a gray based overlayment should be used for darker colored Color Staining. Color Stain provides a translucent finish designed to vary in color based upon the underlying color of the overlayment and surface texture.

### **3.07 MAINTENANCE**

- A. To provide long term maximum life of the newly installed surface, Super-Krete recommends the surface be properly sealed using the appropriate sealer, depending upon the use of the surface. Reseal as required depending upon traffic conditions. Refer to Super-Krete specification M-1 for more information on proper maintenance for concrete overlayments.

END OF SPECIFICATION