

City of
SHELBYVILLE
Tennessee

February 3, 2017

REQUEST FOR PROPOSALS

The City of Shelbyville is requesting proposals for **OUTDOOR POOL DECK CONCRETE REPAIR** located at Shelbyville Recreation Center, 220 Tulip Tree Road, Shelbyville, TN.

Proposals will be accepted by the City of Shelbyville Purchasing Office, 201 N. Spring St., Shelbyville, TN 37160 or may be mailed to P.O. Box 185, Shelbyville, TN 37162 **until 1:00 P.M., February 23, 2017**. Proposals should be submitted in sealed envelopes marked "**OUTDOOR POOL DECK CONCRETE REPAIR**". Any proposals received after the scheduled closing time for receipt of proposals will be returned to the bidder unopened.

Proposals will be opened at public meeting of council appointed bid committee on Thursday, February 23, 2017 at 1:00 P.M. at the Shelbyville City Hall, 201 N. Spring Street. Award of the proposal will be made at the next scheduled City Council Meeting (March 9, 2017) at the Shelbyville City Hall Annex.

MINIMUM SPECIFICATIONS:

Scope: *To repair outdoor pool deck concrete as detailed below*

- **Remove approximately 9,565 square feet of existing coating from pool deck by shot blasting, scraping, or scarifying**
- **Remove existing caulking, approximately 550 linear feet**
- **Patch spalled concrete**
- **Remove/grind 4 concrete blocks from previous fencing flush to deck surface**
- **Pressure wash pool deck to prep for overlay installation, approximately 13,855 square feet**
- **Repair approximately 430 linear feet of existing cracks with a two part urethane**

- Apply bonding primer to entire pool deck
- Trowel slurry coat of polymer modified cementitious overlay to entire pool deck and provide knock down texture
- Seal with pigmented acrylic topcoat (color to be determined)
- Replace removed caulking, approximately 550 linear feet

Option: (to be listed separately in submission)

- Topcoat with clear water-based polyurethane sealer containing polypropylene non-skid additive

Products:

- SC-66 WB Satin Polyurethane Sealer or approved equal
- SC-67 WB Polyurethane Sealer, clear or approved equal
- Texture-Crete or approved equal

Attached flyers and any reference to name brands in this proposal is for example only. An approved equal will be accepted.

All work must comply with the manufacturer's specifications.

Submittal requirements:

(to be included in the proposal)

- Each proposal shall be in a sealed envelope which is plainly marked "Sealed proposal for OUTDOOR POOL DECK CONCRETE REPAIR".
- The bidders name, address, contractor's and all subcontractor's license numbers shall appear on the envelope per State of Tennessee laws and regulations if applicable.

Bidders upon submitting bids/proposals equal to or greater than twenty five thousand dollars (\$25,000.00) in value are required to be licensed in accordance with Tennessee State laws. TCA 62-6-119

- Proof of liability insurance
- Proof of Workers Compensation insurance
- Base proposal and any deduct alternates or options must be

listed

- Warranty statement
- Estimate of completion date
- Manufacturer's specifications must be supplied by the successful bidder to the City.

Building codes:

Repair will meet the requirements of all federal, state and local code bodies having jurisdiction, and shall be the responsibility of the successful bidder to comply. Including permits, inspections, and licenses if required.

Proposal to include all materials and labor necessary to complete for a turnkey project.

Interested parties may turn in more than one proposal.

Any bidders wishing to do a site survey or ask questions may contact Lori Saddler, Purchasing/IT Director, 931/684-2691 or Mike Alsup, Parks and Recreation Director, 931/684-9780.

Please note any variations to these requirements on submitted proposal.

Vendor selection will be based upon the best offer deemed acceptable by the City of Shelbyville's council appointed bid committee and City Council. Proposal to all or part of the RFP indicates a willingness to supply part or all of the proposal. The City of Shelbyville reserves the right to reject any and all proposals.

Successful bidder must carry commercial liability insurance and worker's compensation insurance. A current business license is also required.

All bidders must comply with A.D.A. guidelines if required.

All bidders must be in compliance with Title VI, Civil Rights Act of 1964, which specifies that: No person in the United States shall, on the grounds of race, color or national origin, be excluded from participation in, be denied the benefits of, or be

subjected to discrimination under a program or activity receiving federal financial assistance from the Department of Transportation or the U. S. Department of Justice.

The City of Shelbyville is subject to the Open Records Act, TCA 10-7-501, et. Seq. Bidders are advised that all documents submitted on behalf of this invitation to bid shall be open to the public for viewing and inspection.

The City of Shelbyville will fulfill Public Records Requests in compliance with Tennessee Open Records Act.

Failure on the part of the bidder to comply with all instructions herein may result in bid rejection.

Lori Saddler
Purchasing/IT Director



westcoat[®]
SPECIALTY COATING SYSTEMS

**PRODUCT
SPECIFICATION**

SC

SURFACE COAT
PROTECTIVE SEALERS & STAINS

SC-66 WB Satin Polyurethane Sealer

Description

Westcoat SC-66 is a two component, high solids, water-based, polyurethane sealer. This product provides properties equal to that of traditional urethanes with fewer health and environmental concerns. The UV, mar, and chemical resistant nature of this product will cause it to outperform most other types of sealers.

Uses

SC-66 is specified as the finish coat in moderate to severe chemical environments or in heavy traffic areas. Due to the low odor of the water-based polyurethane, it is user friendly and ideal for interior applications. Apply SC-66 Satin as a coating over Westcoat epoxy & urethane floor coatings. SC-66 Satin is also used as a topcoat on a variety of other substrates such as concrete, Texture-Crete and stained concrete flooring when applied over a clear epoxy or urethane. Use on decorative floors, garage floors, industrial floors, restaurant floors and automotive service areas.

Advantages

- Water-based
- Low Odor
- VOC Compliant
- UV Resistant
- Impact and Abrasion Resistant
- Easy to Clean
- Enhances Color
- Clear- Non-yellowing
- Good Working Time
- Improved Dry Time
- Excellent Adhesion
- USDA & FDA Compliant
- Satin Finish

Packaging

1 and 15 gallon kits

INSPECTION / PREPARATION

Inspection

Surfaces must be structurally sound and sloped for drainage. The surface must be dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. The surface must be porous or rough enough to allow the product to soak in.

Preparation

Prepare surface by scrubbing, sanding, grinding, waterblasting, sandblasting or shot blasting to achieve a clean, porous, and uniform surface that will allow product to soak in and bond permanently. SC-66 has a likelihood of

turning white when applied directly over a substrate with moisture or acid stained concrete, as a precautionary measure apply over a clear epoxy or urethane within 24 hours.

As a final coat over textured epoxy systems SC-66 must be applied within 24 hours. If more than 24 hours have past, lightly abrade the surface and wipe with a solvent such as denatured alcohol prior to the application.

APPLICATION

Mixing

Premix each component separately. In a clean bucket, mix 2 parts A with 1 part B, by volume of SC-66. Mix thoroughly with a low speed (200-300 rpm) drill motor for 4-5 minutes. Make sure to scrape the sides and bottom of the container during mixing.

Thinning

When applying as a clear sealer it is OK to thin the SC-66 with up to 30% water. For best results, thin when applying on textured substrates and apply neat and at approximately 2 mils(wet) or 800 sq.ft. per gallon on smooth surfaces.

Coverage

400-800 sq.ft. per gallon

Applying Product

On textured surfaces, spray the SC-66 evenly onto the surface with a hudson type sprayer and backroll with a $\frac{3}{8}$ " - $\frac{1}{2}$ " nap roller, depending on texture. Be sure that your roller is long enough to fill all voids when backrolling. Two coats may be necessary for full coverage.

On smooth surfaces, spray SC-66 onto floor with a hudson type sprayer and backroll with a $\frac{1}{4}$ inch nap roller. SC-66 can be challenging to apply on smooth precoated floors, such as smooth epoxy floors, as it leaves a slight orange peel texture, be sure to apply very thin and even by rolling carefully in both directions, being sure not to leave roller marks.

Re-coating

Re-coat if needed within 24 hours of application to ensure adhesion. If a delay occurs, it is recommended that the surface be lightly sanded and wiped with a solvent or

Dry Time

You may re-coat as soon as the surface is dry to the touch or in about 4-8 hours. Light foot traffic may be permitted in 12 hours, normal traffic in 24 hours and vehicle traffic in 72 hours. All times are based on average temperature of 70°F and 50% humidity.

Clean Up

Equipment should be cleaned with water immediately after use.

LIMITATIONS

- This product is designed for professional use only.
- Do not apply directly on top of concrete, must be applied over a clear or solid Westcoat epoxy or urethane.
- Be sure to measure and mix properly. Be aware of the pot life of mixed material.
- Do not apply in temperatures below 50°F or above 95°F. Hot or cold weather may effect dry times.
- SC-66 Satin must be cured for a minimum of 48 hours before coming in contact with water.
- Use care to apply evenly.
- Do not allow any Westcoat products to freeze.

HEALTH PRECAUTIONS

Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat and lungs. Prolonged or repeated skin contact can cause slight skin irritation. Avoid contact with skin and wear protective gloves and eye protection.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May also cause damage to respiratory system, lungs, eyes, in and central nervous system. Read Material Safety Data Sheets before using.

DISCLAIMER

PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER OF WESTCOAT, SHALL BE LIMITED SOLELY TO THE REPLACEMENT

OF ANY DEFECTIVE MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL MATERIAL.

Physical Properties

Chemical Composition	Water-Based Polyurethane
Density (#/gal)	9.1
Specific Gravity	1.1
Gloss @60 Degree	30
Solids %/wt	62
Solids %/vol	54
PVC (Pigment to Volume Concentration)	NA
Viscosity cPs	660
Viscosity KU	72
VOC gm/l	<50
Shelf Life	1 year
Flash Point	NA

Technical Data

Pot Life (Gel Time) 150gm @72°F	45 min
Tack Free over concrete (@ 6 mil) @72°F	4hr.
Foot Traffic -1st coat- over concrete @72°F	8 hr.
Foot Traffic -sealed surface- @72°F	12-16 hr.
Full Cure (@ 6mil)	72 hr.
Pencil Hardness	2H
Adhesion on Concrete (7 day cure) ASTM D3359	5
Sag & Leveling ASTM D4400	4
Reducer/Clean Up	Water

Chemical Resistance

Muratic Acid (31.5% HCL)	5
Sulfuric Acid (50% H2SO4)	5
Sulfuric Acid (93% H2SO4)	1
Nitric Acid (10% HNO3)	5
Sodium Hydroxide (50% NaOH)	5
Bleach (sodium hypochlorite)	5
Vinegar (3-5% acetic acid)	5
Transmission Fluid	5
Gasoline	5
Brake Fluid	5
409 Surface Cleaner	5
Pine Sol Solution	5
Blood & Body Fluids	5
Iodine Solution	5
Mustard	5s
Ketchup	5
Red Wine	5
Acetone	5
Methyl Ethyl Ketone (MEK)	5
Xylene	5
Ethanol	5
Methanol	5

Key:
5 = Best (no effect)
4 = Softens (recovers)
3 = Softens (no recovery)
2 = Blistered (no recovery)
1 = Worst Destroyed
s = With Stain
* Contact time > 5hrs = 1



770 Gateway Center Drive San Diego, CA 92102
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SC-66 06/12



SC

SURFACE COAT
PROTECTIVE SEALERS & STAINS

SC-67 WB Polyurethane Sealer Clear

Description

Westcoat SC-67 is a two component, high solids, water-based, polyurethane sealer. This product provides properties equal to that of traditional urethanes with fewer health and environmental concerns. The UV, mar, and chemical resistant nature of this product will cause it to outperform most other types of sealers.

Uses

SC-67 is specified as the finish coat in moderate to severe chemical environments or in heavy traffic areas. Due to the low odor of the water-based polyurethane, it is user friendly and ideal for interior applications. Apply SC-67 as a sealer over plain concrete, Texture-Crete, SC-10 Acrylic Topcoat, stained concrete flooring and textured epoxy coatings. Use on decorative floors, garage floors, industrial floors, restaurant floors and automotive service areas.

Advantages

- Water-based
- Low Odor
- VOC Compliant
- UV Resistant
- Impact and Abrasion Resistant
- Easy to Clean
- Enhances Color
- Non-yellowing
- Good Working Time
- Improved Dry Time
- Excellent Adhesion
- USDA & FDA Compliant
- Semi-Gloss

Packaging

1 and 15 gallon kits

INSPECTION / PREPARATION

Inspection

Surfaces must be structurally sound and sloped for drainage. The surface must be dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. The surface must be porous or rough enough to allow the product to soak in.

over the ALX, MACoat or Texture-Crete Systems, apply directly over the textured surface. If texture has been left for more than 72 hours or it has become dirty, clean as needed prior to the application of SC-67. Note: The most common reason for coating failure is due to lack of preparation.

Preparation

Prepare surface by scrubbing, sanding, grinding, waterblasting, sandblasting or shot blasting to achieve a clean, porous, and uniform surface that will allow product to soak in and bond permanently. As a sealer

As a final coat over textured epoxy systems SC-67 must be applied within 24 hours. If more than 24 hours have past, lightly abrade the surface and wipe with a solvent such as denatured alcohol prior to the application.

APPLICATION

Mixing

Premix each component separately. In a clean bucket, mix 2 parts A with 1 part B, by volume of SC-67. Mix thoroughly with a low speed (200-300 rpm) drill motor for 4-5 minutes. Make sure to scrape the sides and bottom of the container during mixing.

Applying Product

On textured surfaces, spray the SC-67 evenly onto the surface with a chapin type sprayer and broom into the surface using a stiff brush or broom.

Thinning

When applying as a clear sealer it is best to thin the SC-67 with up to 30% water. For best results, thin when applying on textured substrates and apply neat and at approximately 2 mils(wet) or 800 sq.ft. per gallon on smooth surfaces.

On smooth surfaces, spray SC-67 onto floor with a chapin type sprayer and backroll with a 1/4 inch nap roller. SC-67 can be challenging to apply on smooth precoated floors, such as smooth epoxy floors, as it leaves a slight orange peel texture, be sure to apply very thin and even by rolling carefully in both directions, being sure not to leave roller marks. Avoid application if the surface is above 80°F.

Coverage

400-800 sq.ft. per gallon

Re-coating

Re-coat if needed within 24 hours of application to ensure adhesion. If a delay occurs, it is recommended that the surface be lightly sanded and wiped with a solvent

Dry Time

You may re-coat as soon as the surface is dry to the touch or in about 4-8 hours. Light foot traffic may be permitted in 12 hours, normal traffic in 24 hours and vehicle traffic in 72 hours. All times are based on average temperature of 70°F and 50% humidity.

Clean Up

Equipment should be cleaned with water immediately after use.

LIMITATIONS

- This product is designed for professional use only.
- Be sure to do adequate surface preparation.
- Do not apply in temperatures below 50°F or above 80°F. Hot or cold weather may effect dry times.
- Avoid application if surface temperature is above 80°F.
- Surface will become more slippery when sealed. Skid resistant

additives are available.

- Do not apply over damp surfaces.
- SC-67 must be cured for a minimum of 48 hours before coming in contact with water.
- Do not allow any Westcoat products to freeze.

HEALTH PRECAUTIONS

Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat and lungs. Prolonged or repeated skin contact can cause slight skin irritation. Avoid contact with skin and wear protective gloves and eye protection.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May also cause damage to respiratory system, lungs, eyes, in and central nervous system. Read Material Safety Data Sheets before using.

DISCLAIMER

PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER OF WESTCOAT, SHALL BE LIMITED SOLELY TO THE REPLACEMENT

OF ANY DEFECTIVE MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL MATERIAL.

Physical Properties

Chemical Composition	Water-Based Polyurethane
Density (#/gal)	9.1
Specific Gravity	1.1
Gloss @60 Degree	40-50
Solids %/wt	60.0
Solids %/vol	56.0
PVC (Pigment to Volume Concentration)	NA
Viscosity cPs	700
Viscosity KU	76
VOC gm/l	<50
Shelf Life	1 year
Flash Point	NA

Technical Data

Pot Life (Gel Time) 150gm @72°F	1-1.5 hr.
Tack Free over concrete (@ 6 mil) @72°F	4 hr.
Foot Traffic -1st coat- over concrete @72°F	8 hr.
Foot Traffic -sealed surface- @72°F	12-16 hr.
Full Cure (@ 6mil)	72 hr.
Pencil Hardness	2H
Adhesion on Concrete (7 day cure) ASTM D3359	5
Sag & Leveling ASTM D4400	4
Reducer/Clean Up	Water

Chemical Resistance

Muratic Acid (31.5% HCL)	5
Sulfuric Acid (50% H2SO4)	5
Sulfuric Acid (93% H2SO4)	1
Nitric Acid (10% HNO3)	5
Sodium Hydroxide (50% NaOH)	5
Bleach (sodium hypochlorite)	5
Vinegar (3-5% acetic acid)	5
Transmission Fluid	5
Gasoline	5
Brake Fluid	5
409 Surface Cleaner	5
Pine Sol Solution	5
Blood & Body Fluids	5
Iodine Solution	5
Mustard	5s
Ketchup	5
Red Wine	5
Acetone	5
Methyl Ethyl Ketone (MEK)	5
Xylene	5
Ethanol	5
Methanol	5

Key:
 5 = Best (no effect)
 4 = Softens (recovers)
 3 = Softens (no recovery)
 2 = Blistered (no recovery)
 1 = Worst Destroyed
 s = With Stain
 * Contact time > 5hrs = 1

Disclaimer: The test results above are estimated values and believed to be accurate, the tests were performed in Westcoat's lab according to standard testings methods. Values and performance will vary depending on individual use of the product.



4007 Lockridge Street San Diego, CA 92102
 800-250-4519 • Fax 619-262-8606 • westcoat.com

SC-67 12/15



TC

TEXTURE COAT
DECORATIVE TEXTURED SURFACES

Texture-Crete[®]

Description

Texture-Crete System is a series of polymer modified cementitious coatings that is bonded to the concrete with a variety of optional finishes and sealers. Texture-Crete is decorative topping designed to change plain concrete into a very decorative, durable, and textured finish. Refer to the Texture-Crete Custom Finish System for various patterns that can be simulated, from tile to flagstone and more.

Uses

Texture-Crete systems primary function is to resurface concrete that is aesthetically unattractive. Some uses include driveways, walkways, patios, garage floors, courtyards, entryways, showrooms, and pool decks. Texture-Crete can be installed in both the commercial and residential environment. May also be used in interior living areas as well as office space.

Advantages

- Cost Effective
- Fast Drying
- Low Maintenance
- Long Lasting
- Skid Resistance Finish Available
- Unlimited Colors
- Attractive
- Interior or Exterior
- Can be Installed Solvent Free
- Variety of Textures and Patterns

Packaging

- WP-47-3 Seam Tape (3 inch)
- EC-72 Epoxy Patch Paste (1/2 and 2 gallon kits)
- TC-1 Basecoat Cement (50 lb. Bags)
- TC-3 Medium Texture Cement (50 lb bags)
- WP-81 Cement Modifier (1 and 5 gallon pails)
- SC-10 Acrylic Topcoat (1 and 5 gallon pails)

INSPECTION / PREPARATION

Inspection

Concrete must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion. The concrete should be at least 2500 psi and feel like 50 to 80 grit sandpaper. The concrete should be porous and be able to absorb water. A minimum of 28 days cured is required on all concrete. Prior to starting work, test existing concrete slab for efflorescence, moisture, and hydrostatic pressure.

Preparation

Pre-cut and clean all cracks and joints with a concrete diamond blade to at least 1/4 x 1/4 inch. Prepare concrete to a profile equal to 50 or 80 grit sandpaper. You may mechanically profile by shot blasting, scarifying, water blasting. Methods may vary according to the thickness of the coating to be applied, and the condition and hardness of the concrete. Other factors include the forecasted use of the surface and the environment in which it is to be installed. When preparing the surface use caution when shot blasting around pools, scarifying too aggressively, or grinding too smooth.

APPLICATION

Crack Patch

Fill cracks with, EC-72 Epoxy Patch Gel. WP-47-3 (3 inch seam tape) may also be used to help reinforce in which case the EC-72 should be placed into the tape and smoothed with a trowel or putty knife. Broadcast fine silica onto the wet epoxy to provide a surface for the Texture-Crete to bond. EC-72 should be allowed to dry completely prior to slurry coat application. This is a remedial approach to patch cracks and there is no guarantee that cracks will not reappear.

Free Style Pattern

Another way to deal with cracks is to cut a pattern using our special diamond crack chaser. While the slurry is being installed, clean out expansion joints and cracks with a margin trowel. Then simply incorporate a pattern of "fake cracks" along with the existing cracks, which create the look of flagstone by cutting with a crack chaser into any pattern you choose.

Primer

Mix four gallons of water with one gallon of WP-81, (4 to 1 ratio for a total of 5 gallons) and apply it at a rate of 200-300 square feet per gallon. Roll or spray WP-81 primer over the area to be textured. Only prime areas to be coated the same day. For best results, prime and trowel into damp WP-81 primer.

Slurry Coat

Mix the slurry coat by combining 1 bag of TC-1 Basecoat Cement into 1 gallon of WP-81 Cement Modifier and up to 1/2 gallon of water. Mix thoroughly with a low rpm drill motor. Trowel the slurry mix into the damp primer over the surface to achieve a smooth finish, each batch will cover 100-150 square feet. Using a brush wet with water, feather all outside edges, seams, and expansion joints. Apply the slurry coat continuously, keeping a "wet edge", blending each new mix into the prior mix. Stop only at existing seams in the concrete. After surface is dry, scrape or grind off any ridges or trowel marks. Reapply slurry as needed to smooth all surfaces. Being sure to honor all expansion joints.

TEST DATA

Test	Texture-Crete Standard
Bond Strength to Concrete (ASTM C297)	278 PSI
Bond Strength after accelerated aging (ASTM C756)	249 PSI
Abrasion Test (ASTM D1242)	11% reduction
Freeze thaw on concrete (ASTM C67)	171 PSI
Concentrated Load (AC39)	No apparent damage
Water absorption (ASTM D570)	6.5%
Percolation Test (AC39 Sect. 4 G)	.25 Inches
Tensile Strength (ASTM C190-85)	855 PSI
Compressive Strength (ASTM C109-88)	5690 PSI
Flexural Strength	1835 PSI
Impact Strength	22 in/lbs



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SECTION 099726

Cementitious Coatings

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Provide a complete acrylic based cementitious coating system for concrete surfaces that meet the requirements for specific use indicated in the contract documents. Include all applicable substrate testing, surface preparation, and detail work.

1.02 RELATED SECTIONS

- A. Section 033000 – Cast-In-Place Concrete
- B. Section 090000 – Finishes

1.03 SUBMITTALS

- A. Submit under provisions of Section 013300.
- B. Product Data: Submit manufacturer's product data sheets on each product and system to be used including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements.
 - 3. Installation methods.
 - 4. Maintenance requirements.
- C. Selection Samples: For each system specified, provide two sets of samples and color charts, representing manufacturer's full range of colors and patterns.

1.04 QUALITY ASSURANCE

- A. All materials used in the cementitious coating system shall be manufactured and provided by a single manufacturer to ensure compatibility and proper bonding.
- B. Use adequate numbers of skilled workmen that are thoroughly trained and experienced in the necessary crafts and completely familiar with the specified requirements and methods needed for proper performance of the work of this section.
- C. Contractor shall have a minimum of three years experience installing cementitious coatings similar to that which is required for this project and who is acceptable to the manufacturer.
 - 1. Applicator shall designate a single individual as project foreman who shall be on site at all times during installation.
 - 2. Contractor must show and have QCA Qualified Contractor/Applicator paperwork from the manufacturer of the coating system, as required to obtain a long-term jobsite specific warranty.
- D. Convene a meeting before the start of application of coating system. Require attendance of parties directly affecting work of this section, including: architect, contractor, applicator, and authorized representative of the coating system manufacturer and interfacing trades. Review the following:
 - 1. Drawings and specifications affecting work of this section.
 - 2. Protection of adjacent surfaces.
 - 3. Surface preparation and substrate conditions.
 - 4. Application.
 - 5. Field quality control.
 - 6. Protection of coating system.
 - 7. Repair of coating system.

8. Coordination with other work.

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, color, and lot number.
- B. Storage: Store all materials in a clean, dry place with a temperature range in accordance with manufacturer's instructions.
- C. Handling: Handle products carefully to avoid damage to the containers. Read all labels and material safety data sheets prior to use.

1.06 PROJECT SITE CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within the limits recommended by the manufacturer.
- B. Concrete shall be tested for moisture before applying cementitious coating. Water vapor transmission upwards through on-grade concrete slabs may result in loosening of cementitious coating or improper curing of materials. If moisture emissions exceed 5 pounds per 1,000 square feet contact the manufacturer before application.
- C. Concrete must be at least 2500 psi and feel like 50 or 80 grit sandpaper.
- D. Concrete must be cured for a minimum of 28 days before coating is applied.
- E. Schedule coating work to avoid excessive dust and airborne contaminants. Protect work areas from excessive dust and airborne contaminants during coating application.
- F. Before any work is started, the applicator shall examine 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.

1.07 WARRANTY

- A. Upon completion of the work in this section provide a written warranty from the manufacturer against defects of materials for a period of 5 (five) years. To obtain project specific warranty the coating system applicator must be a Westcoat Qualified Contractor/ Applicator and apply for warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable manufacturer: Westcoat Specialty Coatings; 770 Gateway Center Drive, San Diego, CA 92102. Telephone 800-250-4519. Fax 619-262-8606. Web Site: www.westcoat.com.

2.02 MATERIALS

- A. As basis of design Westcoat Texture-Crete System (no substitutions will be accepted): A series of polymer modified cementitious coatings bonded to concrete and sealed with an acrylic topcoat.

2.03 COMPONENTS

- A. Westcoat Texture-Crete System: Decorative cementitious coating designed for concrete resurfacing.
 - 1. Primer: WP-81 Cement Modifier. 4 parts water to 1 part WP-81 Cement Modifier applied at 200-300 square feet per gallon.
 - 2. Optional Primer: EC-11 Water-Based Epoxy Primer can be used in place of WP-81 Cement Modifier/ Apply at a rate of 300-600 square feet per gallon.
 - 3. Slurry Coat: Combine and mix one 50 pound bag of TC-1 Basecoat Cement, 1 gallon of WP-81 Cement Modifier, and up to ½ gallon of water. Apply at 100-150 square feet per batch.
 - 4. Texture Coat: Combine and mix one 50 pound bag of TC-3 Medium Texture Cement, 1 gallon of WP-81 Cement Modifier, and up to ½ gallon of water. Apply texture using

acoustical hopper gun, spraying in a circular motion to achieve 70% coverage at a rate of about 150-200 square feet per batch.

5. Topcoat: Mix all containers of SC-10 Acrylic Topcoat to ensure consistent color. Apply two thin coats of SC-10 at a rate of 200-300 square feet per gallon.
6. Optional Sealer: SC-42 Water-Based Acrylic sealer can be applied over SC-10 Acrylic Topcoat at a rate of 250-300 square feet per gallon for added chemical resistance.

2.04 ACCESSORIES

A. Supplemental Materials:

1. Patching and crack repair materials shall be EC-72 Epoxy Patch gel or TC-5 Concrete Patch for larger spalls and sloping.
2. WP-47-3 Seam Tape for crack repair.
3. Optional aggregate shall be CA-30 Safe Grip added to sealer.

2.05 SOURCE QUALITY CONTROL

A. Verification of Performance

1. Physical Properties: The finish Texture-Crete System shall have the following approximate performance characteristics:
 - a. Bond Strength to concrete (ASTM C297) 278 PSI
 - b. Bond Strength after accelerated aging (ASTM C756) 249 PSI
 - c. Abrasion Test (ASTM D1242) 11% reduction
 - d. Freeze thaw on concrete (ASTM C67) 171 PSI
 - e. Concentrated load (AC39) No apparent damage
 - f. Water absorption (ASTM D570) 6.5%
 - g. Percolation test (AC39 Sec. 4 G) .25 inches
 - h. Tensile Strength (ASTM C190-85) 855 PSI
 - i. Compressive Strength (ASTM C109-88) 5690 PSI
 - j. Flexural Strength 1835 PSI
 - k. Impact Strength 22 in/lbs.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions.

1. Inspect all surfaces to receive cementitious coating. Verify that surfaces are dry, clean, and free of contaminants that would prevent epoxy flooring from properly adhering to the surface.
2. Conduct calcium chloride testing according to ASTM F1869.
3. Conduct surface profile inspection according to ICRI Technical Guideline No.03732.
4. Before starting work, report in writing to the authority having jurisdiction any unsatisfactory conditions.

3.02 SURFACE PREPARATION

- A. Prepare surfaces using methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. Create a surface profile to feel like 50 to 80 grit sandpaper.
- C. Clean Surfaces thoroughly prior to installation.
- D. Rout and clean moving cracks and joints: fill with manufacturer's recommended flexible epoxy filler material.
- E. Repair any non-moving surface deviations with manufacturer's recommended patching material.

3.03 INSTALLATION

- A. Install coatings in accordance with manufacturer's instructions.
- B. Mix all materials in accordance with manufacturer's instructions.
- C. Use application equipment, tools, and techniques in accordance with manufacturer's instructions.

- D. Uniformly apply coatings at spread rates and in number of coats to achieve specified coverage.
- E. Adhere to all limitations, instructions, and cautions for cementitious coating as stated in the manufacturer's published literature.

3.04 FIELD QUALITY CONTROL

- A. Verify coatings and other materials are as specified.
- B. Verify coverages and finish of the system as work progresses.
- C. Manufacturer's representative shall provide technical assistance and guidance for surface preparation and application of coating systems.

3.05 PROTECTION AND CLEAN-UP

- A. Installation areas must be kept free from traffic and other trades during the application procedure and cure time.
- B. Protect finished surfaces of coating system from damage during construction.
- C. Touch-up, repair or replace damaged flooring system after substantial completion.
- D. Clean area and remove all debris upon completion of work. Dispose of empty containers properly according to current local, state and federal regulations.
- E. Allow material to cure 4 to 6 hours before light pedestrian traffic is permitted, 24 hours before heavy traffic, and 72 hours before vehicular traffic is permitted.

3.06 MAINTENANCE

- A. Contractor shall provide to owner, maintenance and cleaning instructions for the cementitious coating system upon completion of work. Owner is required to clean and maintain the surfaces to maintain manufacturer's warranty.

END OF SECTION

This guide specification has been prepared by Westcoat Specialty Coating Systems to assist design professionals in developing a project specific specification. This guide is a template that must be reviewed and adapted by specifiers to comply with project requirements. This guide specification is not to be copied directly into a project specification manual without review.