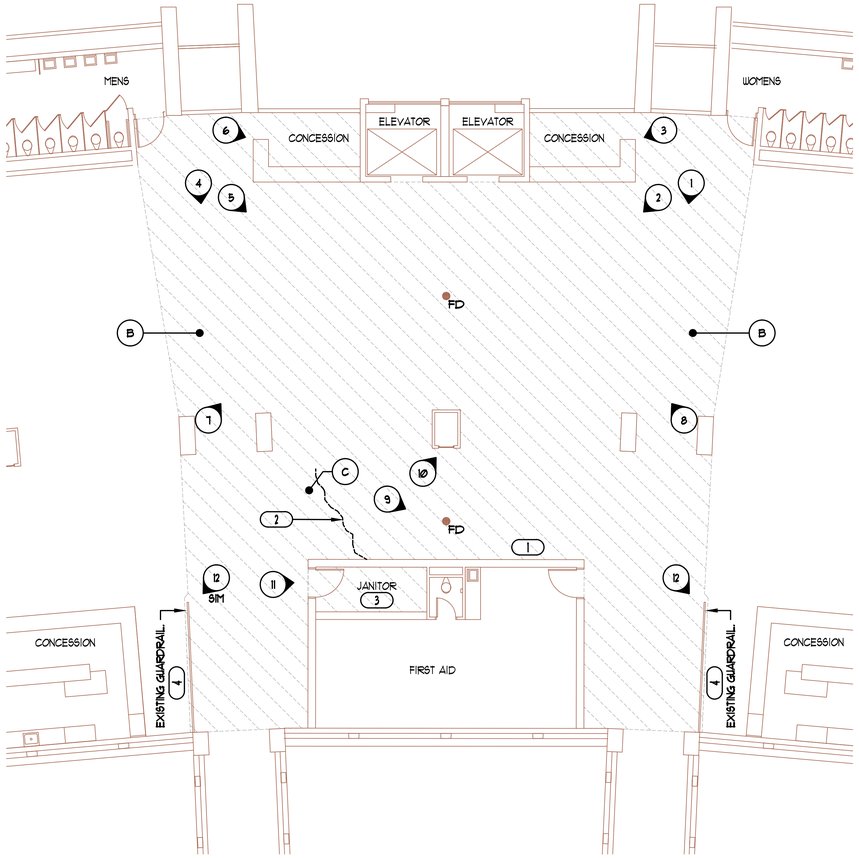
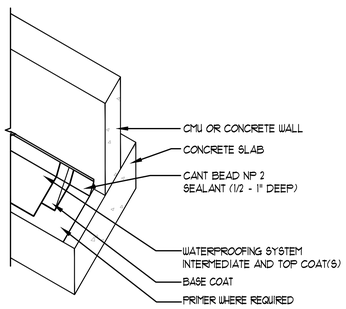
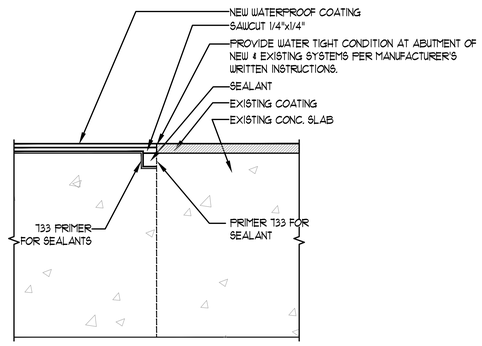


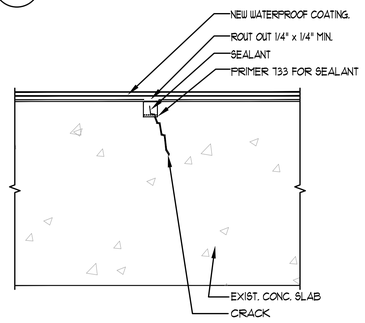
A201 A201 PARTIAL PLAN VIEW - WEST STANDS MAIN CONCOURSE LEVEL
SCALE 1/8" = 1'-0"



A WALL TO SLAB DETAIL (TYPICAL)
NO SCALE



B TERMINATION DTL. @ EXISTING SYSTEM
NO SCALE



C CRACK DETAIL (DYNAMIC)
NO SCALE

1 AREA BETWEEN SECTION 4 & 5 VOMITORY

2

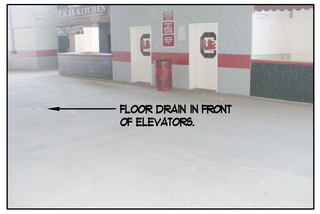
3 CONCESSIONS AREA

4 AREA BETWEEN SECTION 5 & 6 VOMITORY

5

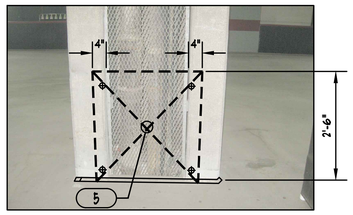
6 CONCESSIONS AREA

7



8 EXISTING CHASE

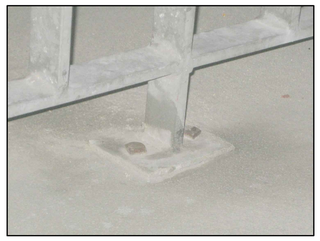
9 FLOOR DRAIN (TYPICAL)



10 EXISTING CHASE

11 JANITOR ROOM

12a EXISTING RAILINGS



12b EXISTING RAILING BASE PLATE

LEGEND

(x) OR (x) PHOTO REFERENCE, THIS SHEET.

FD EXISTING FLOOR DRAIN.

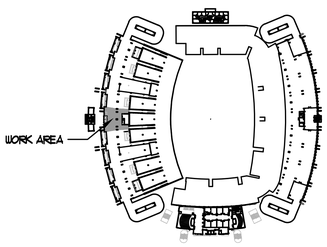
INDICATES AREA TO RECEIVE NEW WATERPROOFING.

GENERAL NOTES

1. THE CONTRACTOR IS TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE COMPLETE WORK SCOPE AND ALL RELATED CONDITIONS PRIOR TO BID. ANY QUESTIONS OR DISCREPANCIES WITH THE INFORMATION SHOWN HEREIN MUST BE DIRECTED TO THE ARCHITECT PRIOR TO BID.
2. PROVIDE CONSTRUCTION SCHEDULE TO OWNER AND ARCHITECT FOR REVIEW SEVEN (7) CALENDAR DAYS PRIOR TO SUBMITTAL OF FIRST APPLICATION FOR PAYMENT.
3. THE CONTRACTOR WILL HAVE ACCESS TO THE STADIUM MONDAY THROUGH FRIDAY AND TIME ON WEEKENDS ONLY IF APPROVED BY THE OWNER 7 DAYS IN ADVANCE OF SUCH WEEKEND. ALL WORK MUST BE COMPLETED WITHIN 45 DAYS FROM ISSUANCE OF NOTICE TO PROCEED BY OWNER. ALLOW 14 DAYS AFTERWARDS FOR COMPLETION OF ANY PUNCH LIST ITEMS. COORDINATE SCHEDULE WITH OWNER PRIOR TO START OF WORK.
4. THE CONTRACTOR IS REQUIRED TO MAINTAIN A CLEAN WORK SITE AT ALL TIMES. THE WORK AREA MUST BE CLEANED UP AT THE END OF EACH DAY MINIMUM. CONTRACTOR SHALL NOT ALLOW TRASH OR DEBRIS TO BECOME WIND BORNE SO AS TO LITTER UP ADJACENT AREAS OF THE STADIUM.
5. ALL WORK SCOPE AREAS ARE TO BE FINAL CLEANED AND LEFT IN LIKE NEW CONDITION.
6. THE CONTRACTOR IS TO AVOID DAMAGE TO ADJACENT WORK. ANY DAMAGED NEWLY PAINTED SURFACES WILL BE RECOATED AT NO COST TO THE OWNER.
7. CONTRACTOR IS TO REMOVE ALL EXISTING EQUIPMENT AND OTHER ITEMS FROM THE AREA INDICATED TO BE WATERPROOFED.CONTRACTOR SHALL STORE SUCH ITEMS TEMPORARILY ON ADJACENT AREA OF CONCOURSE OR ROOM AS DIRECTED BY OWNER.
8. CONTRACTOR IS TO REMOVE EXISTING COATING AT AREA TO BE RECOATED AND PREPARE CONCRETE SURFACE PER COATING MANUFACTURER'S WRITTEN INSTRUCTIONS.
9. CONTRACTOR IS TO BARRICADE OFF THE ENTIRE WORK AREA DURING THE WORK PERIOD FROM REMOVAL OF EXISTING COATING UNTIL THE NEW COATING IS FULLY CURED. COORDINATE WITH OWNER PRIOR TO BARRICADING. THIS INCLUDES ELEVATOR DOORS.
10. REMOVE AND REINSTALL FLOOR DRAIN COVER AND STRAINER AS REQUIRED FOR COMPLETE WATERPROOF SEAL.
11. TERMINATE WATERPROOFING SYSTEM AT EXISTING THRESHOLDS UNLESS NOTED OTHERWISE.

KEY NOTES

1. REMOVE EXISTING ABANDONED ANCHOR BOLTS, GRIND AND PREPARE AREA PER COATING MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. EXISTING SLAB FRACTURE (APPROXIMATELY 30 LINEAR FEET OF FRACTURE). REMOVE EXISTING FILLER MATERIAL AND PREPARE CONDITION PER NEW PRODUCT MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL NEW FILLER MATERIAL AND SEALANT AND PREPARE SURFACE TO RECEIVE NEW COATING.
3. REMOVE EXISTING THRESHOLD, PREP SURFACES PROOF AND INSTALL NEW LIKE THRESHOLD. COORDINATE RELOCATION OF OWNER ITEMS IN THIS ROOM PRIOR TO START OF CONSTRUCTION. SEE PHOTO # 11.
4. EXTEND NEW WATERPROOFING 4"-6" OUTSIDE OF RAILINGS. DO NOT REMOVE RAILINGS. SEAL BASE PLATE PERIMETER FOR WATER TIGHT CONDITION. SEE PHOTO # 12.
5. PROVIDE NEW ¼" THICK ALUMINUM PLATE AND SECURE MECHANICALLY TO CONCRETE COLUMNS. CONTINUE WATERPROOFING SYSTEM (INCLUDING CANT ACROSS BOTTOM FOR CONTINUOUS WATER TIGHT SEAL. SEAL SIDES WITH CONTINUOUS BEAD OF NP-2.



TRUE NORTH PROJECT NORTH KEY PLAN

Jumper Carter Sease Architects PA
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA REGISTERED ARCHITECTS JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002

STATE OF SOUTH CAROLINA REGISTERED ARCHITECTS JARRELL KEVIN MYHAND WEST COLUMBIA 7289

WBS VIDEO BOARD INSTALLATION - CONTROL ROOM WATERPROOFING (#H27-6089-MJ-D)
UNIVERSITY OF SOUTH CAROLINA
COLUMIBA, SOUTH CAROLINA

REVISIONS:

DRAWN BY: SL
CHECKED BY: KM
COMM NO: 12104
DATE: APRIL 26, 2012

SHEET TITLE: PARTIAL PLAN VIEW - WEST STANDS MAIN LEVEL DETAILS & PHOTOGRAPHS

SHEET NO: A201

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes traffic coatings for the following applications:
1. Waterproofing and vehicular traffic coating system for exterior elevated concrete deck and adjacent concrete components within a section of the main concourse level on the west side of the football stadium as indicated on the drawings.

B. Provide labor, materials, equipment and supervision necessary to install the complete traffic coatings system as specified and as indicated on the drawings.

C. The manufacturer's written applicant instructions for each product used are considered part of this specification and must be followed at all times.

1.2 SYSTEM DESCRIPTION

A. Fluid-applied polyurethane waterproofing coating system consisting of moisture curing mechanisms of compatible materials to create a seamless waterproof membrane.

B. Acceptable systems as described herein are Sonoguard by Sonneborn, Auto-gard by Neogard or Dura-Walk VS by Garland Industries.

C. The waterproofing coating system must be designated for the application on the specific type of deck surface indicated.

D. The system is to include the system primer as per the manufacturer's written recommendations.

E. The total system thickness is to be 55 dry mils (exclusive of aggregate) including a minimum 20 dry mil (60sf/gal) base coat.

1.3 SUBMITTALS

A. Product Data: For each product indicated. Submit manufacturer's technical bulletins and MSDS on each product. Include manufacturer's available color selections.

B. Shop Drawings: Show extent of each traffic coating. Include details for treating substrate joints and cracks, flashings, control joints, expansion joints, deck penetrations, and other termination conditions.

C. Samples: For each type of traffic coating required, prepared on rigid backing (6" by 8" minimum). Provide stepped samples on backing large enough to illustrate build-up of traffic coatings.

D. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the traffic coating system specified and that the applicator has completed the manufacturer's certified applicator training course and programs for the specified product.

E. Maintenance data.

F. Submit list of project references as documented in this Specification under Quality Assurance Article. Include contact name and phone number of manufacturer's representative responsible for the oversight and inspections for this project. The representative must be a full time employee of the deck coatings manufacturer.

G. Quality Control Submittals:
1. Provide evidence of Qualifications as documented in this Specification under Quality Assurance Article.
2. Provide protection plan of surrounding areas and non-work surfaces.

1.4 QUALITY ASSURANCE

A. Qualifications:
1. Manufacturer Qualifications: Company with minimum 15 years of experience in manufacturing of specified products and systems.
2. Manufacturer Qualifications: Company shall be ISO 9001:2000 Certified.
3. Applicator Qualifications: Company with minimum of 10 years experience in application of specified products and systems on projects of similar size and scope, and is approved by the traffic coating manufacturer to install the system specified.
a. Successful completion of a minimum of 5 projects of similar size and complexity to specified Work.
b. Successful completion of the traffic coating manufacturer's certified training course for the specified system within the last two years.
c. Certification: Written approval or license of applicator by traffic coating manufacturer.

B. Requirements of regulatory agencies:

1. The vehicular traffic deck coating system shall be rated Class "A" by Underwriters Laboratories (ASTM E 108/UL 790). Containers to bear Underwriters Laboratories labels. The system shall also be compliant with ASTM C 957 & ASTM E84.

2. Materials used in the deck coating system shall meet Federal, State and local VOC regulations.

C. Source Limitations: Use traffic coatings of a single manufacturer.

D. Field Sample:
1. Install at Project site or pre-selected area of structure an area for field sample, as directed by Architect.
a. Provide mockup of at least 100 square feet (9.3 sm) to include surface profile, sealant joint, crack, flashing, and juncture details and allow for evaluation of slip resistance and appearance.
b. Apply material in strict accordance with manufacturer's written application instructions.
2. Manufacturer's representative or designated representative will review technical aspects; surface preparation, application, and workmanship.
3. Field sample will be standard for judging workmanship on remainder of Project.
4. Maintain field sample during construction for workmanship comparison.
5. Do not alter, move, or destroy field sample until Work is completed and approved by Architect.
6. Obtain Architect's written approval of field sample before start of material application, including

approval of aesthetics, color, texture, and appearance.

E. Pre-installation Conference: The deck coating manufacturer (manufacturer's representative) shall conduct pre-installation conference at the Project site prior to the start of work and issue typed minutes of the conference. Attendees must include at a minimum the deck coating manufacturer's representative, the onsite superintendent & personnel of the coating applicator, the architect and the owner's representative.

F. Inspections: Refer to Part 3 – Execution of this specification.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Schedule: Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.

B. Delivery: Materials shall be delivered in manufacturer's original, unopened, undamaged containers, with product identification labels intact. Each container or package shall be clearly marked with supplier's name, brand name and type of material.

C. Storage and Handling: Recommended material storage temperature is 75°F (23.8°C). Handle products to avoid damage to container. Do not store for long periods in direct sunlight.

1.6 PROJECT CONDITIONS

A. Environmental Limitations:
1. Do not apply traffic coatings to damp or wet substrates, when temperatures are below 40 deg F (5 deg C), when relative humidity exceeds 85 percent, or when temperatures are less than 5 deg F (3 deg C) above dew point.
2. Do not apply in rain or when rain is expected within 24 hours. Do not apply above 110 degrees F (32 degrees C) or below 40 degrees F (4 degrees C) or when temperatures are expected to fall below 40 degrees F (4 degrees C) within 24 hours.
3. Do not apply traffic coatings in snow, rain, fog, or mist, or when such weather conditions are imminent during the application and curing period. Apply only when frost-free conditions occur throughout the depth of the substrate.
4. Do not apply materials unless surface to receive coating is clean and dry, or if precipitation is imminent.

B. Safety and Health Conditions:

1. During coating application, it is essential that maximum effort is made to protect the coating mechanic and others near the workplace from breathing vapors and coming in contact of material with skin or eyes.
2. In confined areas, the best form of protection against organic solvents or other potentially sensitizing vapors is a fresh air supply. For maximum protection, it is recommended to use NIOSH/MSHA-approved, self-contained breathing apparatus with a full-face piece operated in a positive pressure mode.
3. In unrestricted (open outdoor) areas, it is recommended to wear a suitable mask or respirator of a type approved by NIOSH/MSHA.
4. To prevent excessive skin contact with the material, it is recommended to use fabric coveralls and

neoprene or other resistant gloves. To prevent eye contact, wear a full-face mask or OSHA-approved protective goggles.

C. Protection:

1. Keep products away from heat, sparks, and flames. Do not allow use of spark producing equipment during application and until vapors are gone. Post "No Smoking" signs.
2. The overspray and/or solvents from coatings can carry considerable distances and care should be taken to do the following:

a. Provide physical barricades to protect area of work. Include elevator openings.
b. Post warning signs a minimum of 100 feet from the work area.
c. Mask off or cover all air intakes near the work area to prevent odors from entering occupied areas of the building or structure.
d. Set up wind breaks when needed.
e. Minimize or exclude all personnel not directly involved with the coating application.
f. Have CO_2 or other dry chemical fire extinguishers available at the jobsite.
g. Provide adequate ventilation.

3. After completion of application, do not allow pedestrian traffic on coated surface for a period of at least 48 hours at 75°F (23.8°C) and 50% R.H., and 72 hours for vehicular traffic or until completely cured.
4. Protect plants, vegetation and animals which might be affected by coating. Use drop cloths or masking as required.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard Joint and Several (manufacture and manufacturer approved installers) in which manufacturer agrees to repair or replace the traffic coating system and any part there of included in the scope of work of this project that fail in materials and workmanship within five years from date of Substantial Completion. Applicator must be certified and trained by the deck coating manufacturer.

1. Warranty does not include deterioration or failure due to unusual weather phenomena, failure of prepared and treated substrate, formation of new substrate cracks exceeding 1/16 inch (1.6 mm) in width, fire, vandalism, or abuse by maintenance equipment, and truck traffic.
2. Failure includes, but is not limited to, the following:

a. Adhesive or cohesive failures.
b. Abrasion or tearing failures.
c. Surface crazing or spalling.
d. Intrusion of water, oils, gasoline, grease, salt, or acids into deck substrate.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design System: Subject to compliance with requirements, provide Sonoguard waterproof deck coating system and all related components of the water tight system including and required concrete repairs by BASF Building Systems or one of the following waterproof coating manufacturers, systems and applicators. No manufacturers, coating system or applicators other than those listed herein shall install the water proofing coating system for their specific manufacturer listed.

B. Basis of Design waterproof deck coating system Product and Manufacturer:
1. SONOGUARD
BASF Building Systems
889 Valley Park Drive
Shakopee, MN 55379
Phone: 952-496-6000
Internet: www.BASFbuildingsystems.com

C. Accepted Comparable waterproof deck coating system Product and Manufacturers:
1. AUTO-GARD
Neogard, Division of Jones Blair
2728 Empire Central
Dallas, Texas 75235-4409
Phone: 800-321-6588
Internet: www.neogard.com

2. DURA-WALK VS
Garland Industries
3800 East 91st Street
Cleveland, Ohio, 44105
Phone: 866-228-7743
Internet: www.garlandind.com

2.2 MATERIALS

A. Fluid-applied, moisture-curing, polyurethane, waterproofing, traffic-bearing, membrane deck coating system.

B. Acceptable Products:
1. Base Coat: Sonoguard Base Coat. One-component, moisture-curing polyurethane.
2. Intermediate Coat: Sonoguard Intermediate Coat. One-component, aliphatic, moisture-curing polyurethane.
3. Top Coat: Sonoguard Top Coat. One-component, aliphatic, moisture-curing polyurethane.
4. Aggregate: Sonoguard Aggregate.
5. Cementitious and Epoxy Patching Materials: BASF Corporation repair mortar and epoxies.
6. Sealant Primer: Sonneborn Primer 733.
7. Deep Joint Sealant: Sonneborn SL-2 or Sonneborn NP-2.
8. Clean-up: Reducer 990.

C. Properties:
1. Weight per Gallon, ASTM D 1475:
a. Base Coat: 9.9 lbs (4.5 kg).
b. Top Coat: 9.1 lbs (4.1 kg).
2. Specific Gravity:
a. Base Coat: 1.19 kg/L.
b. Top Coat: 1.09 kg/L.
3. Solids Content, ASTM D 1259:
a. Base Coat, By Weight: 84 percent.
b. Base Coat, By Volume: 81 percent.
c. Top Coat, By Weight: 77 percent.
d. Top Coat, By Volume: 75 percent.
4. Viscosity, ASTM D 2393:
a. Base Coat: 4,000 to 9,000 cps.
b. Top Coat: 2,000 to 4,000 cps.
5. Flash Point, ASTM D 56:
a. Base Coat: 104 degrees F (40 degrees C).
b. Top Coat: 105 degrees F (40.5 degrees C).
6. VOC Content:
a. Base Coat, Self-Leveling Grade: 1.63 lbs per gal (196 g/L), less water and exempt solvents.
b. Base Coat, Flash/Slope Grade: 1.7 lbs per gal (203.3 g/L), less water and exempt solvents.
c. Top Coat: 1.75 lbs per gal (209 g/L), less water and exempt solvents.

D. Properties of Cured Membranes:
1. Hardness, Shore A, ASTM D 2240.
a. Base Coat: 60.
b. Intermediate and Top Coat: 89.
2. Tensile Strength, ASTM D 412:
a. Base Coat: 752 psi (5.2 MPa).
b. Intermediate and Top Coat: 2,500 psi (17.2 MPa).
3. Elongation, ASTM D 412:
a. Base Coat: 595 percent.
b. Intermediate and Top Coat: 502 percent.
4. Tear Strength, ASTM D 1004:
a. Base Coat: 74 PIT.
b. Intermediate and Top Coat: 199 PIT.
5. Weight Loss, Maximum 40:
a. Base Coat: 16 percent.
b. Intermediate and Top Coat: 17 percent.
6. Low Temperature Flexibility and Crack Bridging:
a. Base Coat: No cracking.
b. Intermediate and Top Coat: No cracking.

7. Adhesion in Peel After Water Immersion:
a. Base Coat, Primed Mortar: 43 pli.
b. Base Coat, Plywood: 34 pli.
8. Pull-Out Adhesion, ASTM D 4541:

a. Base Coat: 275 psi.

E. Chemical Resistance Tensile Retention, ASTM C 957:
1. Ethylene Glycol, Minimum 70:
a. Base Coat: 88.
b. Intermediate and Top Coat: 92.
2. Mineral Spirits, Minimum 45:
a. Base Coat: 47.
b. Intermediate and Top Coat: 60.
3. Water, Minimum 70:
a. Base Coat: 96.
b. Intermediate and Top Coat: 83.

F. Coating System Weathering Resistance and Elongation Recovery, ASTM C 957:
1. Elongation Recovery, Minimum 90 Percent: 94 percent.
2. Tensile Retention, Minimum 80 Percent: 151 percent.
3. Elongation Retention, Minimum 90 Percent: 94 percent.
4. Abrasion Resistance, (CS-17 Wheel, 1,000 g load, 1,000 cycles), Maximum 50 mg lost: 1 mg lost.
5. Crack Bridging (1,000 cycles): System passes.

G. Color: Charcoal Gray. Submit sample for final confirmation.

PART 3 - EXECUTION

3.1 EXAMINATION

A. The deck coating manufacturer is required to perform periodic inspections of the work and issue a written report.

B. Minimal required inspections performed by the deck coating manufacturer are as follows: Initial Inspection, Profile Inspection, each Stage of Installation Inspections and Coompletion Inspection. Each inspection is to be performed and the work accepted by the deck coating manufacturer before the contractor is allowed to proceed to the next stage of the coating.

All reports are to be issued to the architect within three days of the inspection. The reports are to be logged by the manufacturer's inspector and available to the architect and owner upon request. The inspector must be a full time employee of the deck coating manufacturer.

3.2 SURFACE PREPARATION

A. Prepare substrates in accordance with manufacturer's instructions.

B. Substrates must be sound and free of dust, dirt, laitance, paints, oils, grease, curing compounds, or any other contaminants.

C. Mechanically prepare substrate to remove previous coatings, laitance, and miscellaneous surface contamination. Shotblast for surface profile to achieve specified adhesion equal to International Concrete

Repair Institutes CSP 3.
1. Roughen or brush blast extremely smooth surfaces to ensure good mechanical adhesion.
2. Patch all holes and cracks before installation.

E. Repair voids and delaminated areas with cementitious and epoxy patching materials.

3.3 MIXING

A. Mix materials in accordance with manufacturer's instructions.

3.4 APPLICATION – GENERAL

A. Apply materials in accordance with manufacturer's instructions.

B. Do not apply materials to damp, wet, or contaminated substrates.

C. Surface Prestriping and Detailing:
1. Prestripe with primer 1 inch (25 mm) beyond all surfaces that require detail work.
2. For nonmoving joints and cracks less than 1/16 inch (1.6 mm) wide, apply 25 wet mils (0.6 mm) prestriping of base coat over cured primer. Apply the base coat to fill and overlap the joint or crack 3 inches (76 mm) on each side. Feather the edges.
3. Dynamic cracks and joints over 1/16 inch (1.6 mm) wide shall be routed to a minimum of 1/4 inch by 1/4 inch (6 mm by 6 mm) and cleaned. Install bond breaker tape to prevent adhesion to bottom of joint. Prime joint faces only with sealant primer and fill with sealant. Fill joints deeper than 1/4 inch (6 mm) with backer rod and deep joint sealant. For cracks, sealant shall be flush with the adjacent surface. For expansion joints, sealant shall be slightly concave.
4. Sealed joints 1 inch (25 mm) or less shall be coated over with the deck coating system.
5. Expansion joints exceeding 1 inch (25 mm) wide, including the primary wide expansion-joint system, shall not to be coated.
6. Where the coating system will be terminated and no wall, joint, or other break exists, cut a 1/4 inch by 1/4 inch (6 by 6 mm) keyway into the concrete. Fill and coat keyway as application of base coat progresses.

D. Metal Surfaces:
1. Remove dust, debris, and any other contaminants from vent, drain pipe, and post penetrations; reglets; and other metal surfaces. Clean surfaces to bright metal and prime with sealant primer. Provide cant with deep joint sealant to eliminate 90 degree angles.
2. Detail cant with primer where required and base coat per manufacturer requirements prior to application of deck coating system.

3.5 EXTRA-HEAVY-DUTY TRAFFIC SYSTEM

A. Apply 25 wet mils (0.6 mm) of base coat. 60 SF / gallon coverage. Immediately backroll to level base coat. Allow to cure overnight.

B. Apply 25 wet mils (0.6 mm) of intermediate coat. 60 SF / gallon coverage. Immediately backroll to level intermediate coat. Allow to cure overnight.

C. Immediately backroll to level intermediate coat. While coating is still wet, broadcast aggregate to refusal at rate of 50 to 70 pounds per 100 square feet (2.5 to 3.4 kg/m^2). Allow to cure overnight.

D. Remove loose aggregate. Apply 20 wet mils (0.5 mm) of top coat.

E. Immediately backroll to evenly level top coat.

3.6 PROTECTION

A. Pedestrian Traffic: Allow minimum curing time of 48 hours before pedestrian use.

B. Vehicular Traffic: Allow minimum curing time of 72 hours before vehicular use.

C. Extend curing time in cool-weather conditions.

D. Protect system from damage during construction.

END OF SECTION

Jumper
Carter
Sease
Architects
PA
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA
JUMPER CARTER SEASE ARCHITECTS, PA
WEST COLUMBIA
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REGISTERED ARCHITECTS

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