



## ADDENDUM | No. 2

|                     |  |
|---------------------|--|
| <b>PROJECT</b>      | Indoor Fish Cleaning Station<br>Sailboat Landing Lake Access Area<br>Codington County, South Dakota<br>GFP Project No. KamS22Wa  |
| <b>BID DATE</b>     | 3:00 PM CDT March 12, 2026   |
| <b>BID LOCATION</b> | Dept of Game, Fish and Parks<br>2 <sup>nd</sup> Floor Foss Building<br>523 East Capitol<br>Pierre, SD 57501-3182   |
| <b>ISSUE DATE</b>   | 3/10/2026  |
| <b>NOTICE</b>       | Failure to acknowledge all addenda in the BID may cause rejection of the BID. If bids have already been mailed, bidders can email the bid modification form acknowledging the addendum. See Instructions to Bidders. |

### SCOPE OF THIS ADDENDUM

The following becomes a part of the original project manual and drawings, taking precedence over the items that may conflict. The bidder shall note receipt and make acknowledgment of the Addendum on their bid form, incorporating its provision in their bid.

### PRIOR APPROVALS

The following manufacturers of the items and materials have been added to the list of approved manufacturers. Listing of an item does not change the requirements of the specifications. Equipment furnished shall meet the materials and performance requirements as specified.

| SECTION | DESCRIPTION  | MANUFACTURER |
|---------|--|--------------|
| DIV 23  | REFER TO ATTACHMENT FOR MECHANICAL PRIOR APPROVALS |              |



## PROJECT MANUAL

The following additions, changes and clarifications have been made to the Project Manual.

### Section 07 4113 – Formed Metal Roof Panels

*Clarification:* Paragraph 2.2 - Metal roof panel nominal thickness shall be 24 gauge (0.028 inches)

*Change:* In Paragraph 2.2, the second subparagraph listed as “A.” shall change to “B.”

*Change:* Paragraph 2.2.B, subparagraphs 3-4 shall read as follows:

3. Panel Coverage: 36 inches.
4. Panel Height: 1-1/4 inches.

*Delete:* Paragraph 2.4 in its entirety.

*Add:* New Paragraph 2.4 to read as follows:

#### 2.4 SNOW GUARDS

A. Snow and Ice Guards: Screw-down snow rails for Exposed Fastener Metal Roof Systems.

1. Continuous snow guard rails with fastener plates and gasketing applied between plate and roof.
2. Material and Finish: Zinc-coated, galvanized steel sheet.
  - a. Minimum Length: 6'-0”.
  - b. Color: To match roof color.

### Section 07 4213.13 – Formed Metal Wall Panels

*Change:* Paragraph 2.2.B.1.a shall read as follows:

- a. Nominal Thickness: 26 gauge (0.022 inch).

*Change:* Paragraph 2.2.B.4 shall read as follows:

4. Panel Height: 1-1/4 inches.

*Clarification:* Paragraph 2.3 - Metal Liner Panels nominal thickness shall be 26 gauge (0.022 inch)

*Change:* Paragraph 2.3.B, subparagraphs 2-4 shall read as follows:

2. Rib Spacing: 12 inches o.c.
3. Panel Coverage: 36 inches.
4. Panel Height: 1-1/4 inches.

### Section 09 96723 – RESINOUS FLOORING

*Add:* New Specification Section in its entirety.



**Section 31 2300 – TRENCHING, EXCAVATION AND BACKFILLING**

*Clarification:* All dewatering shall be the responsibility of the Contractor.

**DRAWINGS**

The following additions, changes and clarifications have been made to the Drawings.

**Drawing Sheet C-400 – Surfacing Plan**

*Delete:* Sheet in its entirety.

*Add:* New sheet C-400 – Surfacing Plan, attached.

**Drawing Sheet C-401 – Surfacing Plan**

*Delete:* Sheet in its entirety.

*Add:* New sheet C-401 – Surfacing Plan, attached.

**Drawing Sheet A-800 – Room Finish, Door & Window Schedule**

*Change:* Room Finish Schedule – Floor Finish.

*Mechanical Room Floor Finish shall be Hardener / Densifier.*

**Drawing Sheet C-901 – Interceptor Tank Detail**

*Clarification:* Concrete tank structure shall be allowed to be premanufactured as long as design can withstand all loading and buoyancy forces and requirements for a tank at empty and filled all the way to top.

Project Manual and Drawing inquiries regarding the work should be directed to:

**CONTACT PERSON(S)**

Banner Associates, Inc.      Tel 1-605-692-6342 | Toll Free 1-855-323-6342 | Fax 1-605-692-5714

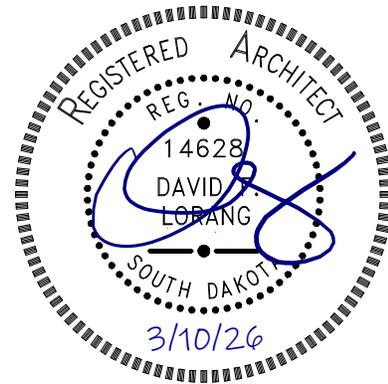
David Lorang

Architect

davel@bannerassociates.com

## ATTACHMENTS

Product Approvals  
Specification Section 09 6723 – Resinous Flooring  
Drawing Sheet C-400 – Surfacing Plan  
Drawing Sheet C-401 – Surfacing Plan



David Lorang, AIA



# Addendum

**Date:** March 10, 2026

**Project:** Sailboat Landing Indoor Fish Cleaning Station

**To:** Dave Lorang, AIA

**Project #:** BS25044

**From:** Nick Carr

**Project Location:** Watertown, SD

**Addendum Number:** 1

**To:** All prime contract bidders and all others to whom Drawings and Specifications have been issued by the Engineer. Acknowledge receipt of the Addendum by inserting its number and date on the Bid Form. Failure to do so may subject bidder to disqualification. This Addendum forms a part of the Contract Documents. It modifies them as follows:

### Product Approvals

The manufacturers and products, which are listed in the following texts, are approved for bidding. Final acceptance is contingent upon receipt and approval of final shop drawings. Manufacturer shall conform to all warranties, performances, size, etc., as the item specified. The burden of proof of the merit of the proposed substitution is upon the proposer. Those items not specifically listed by addendum shall not be approved for bidding.

| <u>Section</u> | <u>Description</u>     | <u>Manufacturer</u> |
|----------------|------------------------|---------------------|
| 23 2113        | Radiant Heat Piping    | Comfort Products    |
| 23 2114        | Expansion Tanks        | Grundfos            |
| 23 2114        | Air Separators         | Spirotherm          |
| 23 2114        | Balancing Valves       | HCI                 |
| 23 2123        | Hydronic Pumps         | Grundfos            |
| 23 3700        | Air Outlets and Inlets | United Enertech     |
| 23 3700        | Air Outlets and Inlets | Air Balance         |
| 23 8126.13     | Ductless Split Units   | Samsung             |

END OF DOCUMENT – NWC



SECTION 09 6723 – RESINOUS FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes surface preparation and application of high-performance coating systems to surfaces scheduled.
- B. Related Sections include the following
  - 1. Section 03 3000 “Cast-In-Place Concrete” for concrete slabs to be coated.

1.3 DEFINITIONS

- A. Standard coating terms defined in ASTM D 16 apply to this Section.
- B. Coating Inspector: Owner’s coating observer on site. Coating Inspector may or may not be the same as the Resident Project Representative. Coating Inspector has no formal inspection responsibilities (i.e. approving surface preparation). Coating Inspector’s role is to observe and document observations. Coating Inspector will inform Applicator of areas that, in the Coating Inspector’s professional opinion, do not meet the intent of the specification.

1.4 SUBMITTALS

- A. Applicator experience qualifications.
  - 1. No product information will be reviewed until Engineer has received and approved applicator qualifications.
  - 2. Include all information required in Paragraph 1.4A “Quality Assurance” of this Section.
  - 3. Quality Control Plan.
  - 4. Applicator Training and Product Certification Records
- B. Product Data: For each coating system indicated.
  - 1. An inclusive list of required coating materials. Indicate each material and cross-reference the specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
    - a. Acknowledgement that products submitted meet requirements of standards referenced.
    - b. Manufacturer's surface preparation instructions.
    - c. Manufacturer's application instructions.

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- d. If products being used are manufactured by Company other than listed, provide complete individual data sheet comparison of proposed products with specified products including application procedure, coverage rates and verification that product is designed for intended use.
  - e. Contractor's written plan of action for containing airborne particles created by blasting operation and location of disposal of spent contaminated blasting media.
  - f. Coating manufacturer's recommendation on abrasive blasting.
  - g. Manufacturer's recommendation for universal barrier coat.
2. Manufacturer's statement regarding applicator instruction on product use.
  3. Certification that coating systems proposed as Substitutions have been reviewed and approved by Senior Corrosion Specification Specialist employed by the coating manufacturer.
- C. Coating Schedule:
1. Provide a schedule including all surfaces to be coated. Schedule shall include the following:
    - a. Surface identification.
    - b. Specified coating system number.
    - c. Surface preparation.
    - d. For each coat:
      - 1) Product name.
      - 2) Color.
      - 3) Coating thickness.
    - e. Note any deviations from the specification.
- D. Miscellaneous Submittals:
1. Applicator's daily records:
    - a. Submit daily records at end of each in which coating work is performed unless requested otherwise by Engineer's on-site representative.
    - b. All records shall be submitted through a computer generated form.
  2. Product Coating Submittal Information Form
    - a. Form is included at the end of the Section.
    - b. Form shall be submitted with all products that have shop applied coatings.
- E. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available for each type of finish-coat material indicated.
1. After color selection, Architect will furnish color chips for surfaces to be coated.

1.5 QUALITY ASSURANCE

- A. Applicator Qualifications: Engage an experienced applicator who has completed high-performance coating system applications similar in material and extent to those indicated for Project and whose work has a record of successful in-service performance.

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1. Applicator shall furnish, to the Engineer, a letter from all selected coating manufacturer(s), stating that they have been trained in the proper preparation mixing, thinning, and application of the high performance coating system(s) with the Submittals.
2. Application of the high performance coating system(s) by anyone other than the applicator trained by the Manufacturer(s) will not be allowed.
3. Coating Superintendent shall have minimum of 10 years experience in application of similar products on similar projects. Applicators shall have a minimum of 3 years experience in application of similar products on similar projects.
  - a. Provide references for minimum of three (3) different projects completed in last five (5) years with similar scope of work. References shall be from projects w/ same proposed Coating Superintendent for Project.
  - b. Include name and address of project, size of project in value (coating) and contact person.
4. Except in extreme circumstances, Coating Superintendent shall not be replaced without written notice provided to the Engineer at least seven (7) days prior to change. If replacement is necessary, an additional pre-job conference may be held at the Engineer's discretion prior to continuing coating application.

B. Miscellaneous:

1. Furnish paint through one (1) manufacturer unless noted otherwise.

C. Deviation from specified mil thickness or product type is not allowed unless approved, in writing, by manufacturer's authorized representative and Engineer.

D. Material shall not be thinned unless approved, in writing, by coating manufacturer's authorized representative and Engineer.

E. Accelerators shall not be used unless approved, in writing, by coating manufacturer's authorized representative and Engineer.

F. Source Limitations: Obtain primers and undercoat materials for each coating system from the same manufacturer as the finish coats.

1. All top coats shall be provided from the same manufacturer, regardless of whether it was shop or field coated. Contractor shall coordinate this between suppliers and Field Applicators.

## 1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to Project site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label with the following information:

1. Name or title of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. Handling instructions and precautions.

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- B. Store materials not in use in tightly covered containers in a well-ventilated area and environmentally controlled atmosphere in accordance with Manufacturer’s recommendations. Temperature of storage shall be monitored for minimum and maximum ambient air temperature in accordance with product data sheets. Maintain containers used in storage in a clean condition, free of foreign materials and residue.
  - 1. Protect materials from freezing and heat above manufacturer’s published recommendations. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing, and applying coatings.

1.7 EXISTING CONDITIONS

- A. It is the responsibility of the applicator to visit the project site prior to bidding. No claims of unknown or differing conditions will be allowed if no pre-bid site visit was performed. Given the nature of the work, it is strongly recommended that the foreman that will be performing the work be included on the site visit.

1.8 COATING APPLICATION PRE-JOB CONFERENCE

- A. Notify Engineer at least 2 weeks prior to start of coating application work.
- B. Pre-job conference is required prior to any coating application work.
- C. Pre-job conference shall be attended by General Contractor, Applicator (including all personnel with supervisor responsibilities on the job), Coating Manufacturer’s technical representative, Engineer/Architect, and Coating Inspector (if obtained by Owner).
  - 1. A second pre-job conference shall be required to address deck-traffic coating application only.
- D. Agenda shall include (but not be limited to):
  - 1. Scope of Work
  - 2. Work schedule.
  - 3. Quality control plan.
  - 4. Safety requirements.
  - 5. Areas of concern or problem areas
  - 6. Access
- E. At the pre-job conference, Applicator shall prepare (surface preparation and application of prime coat) sample plates in accordance with the specifications for each system of coating and level of surface preparation. Sample plate shall be a minimum of 4 inches by 8 inches by 1/8 inch thick. Three (3) sample plates of each system shall be provided, at a minimum.

1.9 REFERENCES

- A. ASTM International:
  - 1. D 4258 – “Standard Practice for Surface Cleaning Concrete for Coating”
  - 2. D 4259 – “Standard Practice for Abrading Concrete”
  - 3. D 4262 – “Standard Test Method for pH of Chemically Cleaned or Etched Concrete Surfaces”

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4. D 4263 – “Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method”
  5. D 4541 – “Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers”
  6. D 5402 – “Standard Practice for Assessing the Solvent Resistance of Organic Coatings Using Solvent Rubs”
  7. F 1869 – “Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride”
  8. D 4285 – “Standard Test Method for Indicating Oil or Water in Compressed Air”.
  9. D 5402 – “Standard Practice for Assessing the Solvent Resistance of Organic Coatings Using Solvent Rubs”.
- B. International Concrete Repair Institute (ICRI)
1. Guideline No. 310.2R – “Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair”
- C. Joint NACE International and SSPC (Society for Protective Coatings)
1. NACE No. 6/SSPC-SP 13 – “Surface Preparation of Concrete”

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide products by the following:
1. Sherwin-Williams Company (S-W)
  2. Or approved equal.

### 2.2 COATINGS MATERIALS, GENERAL

- A. Material Compatibility: Provide primers, undercoats, and finish-coat materials that are compatible with one another and substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
- B. Material Quality: Provide manufacturer's highest grade of the various high-performance coatings specified. Materials not displaying manufacturer's product identification are not acceptable.
1. Proprietary Names: Use of manufacturer's proprietary product names to designate colors or materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish manufacturer's material data and certificates of performance for proposed substitutions.

### 2.3 HIGH-PERFORMANCE COATING SYSTEMS

- A. Any coating applied to surfaces in contact with potable water shall be NSF certified.

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B. CONCRETE FLOOR SLABS

1. Prime Coat
  - a. Product: Epoxy
    - 1) S-W: Resuprime 3579
  - b. Spreading Rate: 200-300 sq. ft. per gallon
2. Body Coat w/ Broadcast
  - a. Product: Epoxy
    - 1) S-W: Elladur 4850
  - b. Spreading Rate: 150-250 sq. ft. per gallon
  - c. Broadcast Chips
    - 1) S-W: 6750
    - 2) Spreading Rate: 100 – 200 lbs/1000 sq. ft.
3. Grout Coat
  - a. Product: Epoxy
    - 1) S-W: Elladur 4850
  - b. Spreading Rate: 125 – 200 sq. ft. per gallon
4. Top Coat:
  - a. Product: Epoxy
    - 1) S-W: Elladur 4850
  - b. Spreading Rate: 150 – 250 sq. ft. per gallon
5. Color shall be “Saddle Tan”

PART 3 - EXECUTION

3.1 ITEMS TO BE PAINTED

- A. Items to be painted shall be prepared and have coating applied in the manner specified.
- B. Items to be painted include the following:
  1. Fish Cleaning Station, Room 100.
  2. Toilet Room 101.

3.2 ITEMS NOT TO BE PAINTED

- A. All items indicated not to be painted shall be protected from surface preparation and application of coatings.
- B. Items not to be painted include the following:
  - 1. Mechanical Room 102
  - 2. Any existing coated surface, unless specifically indicated to be painted.
  - 3. Concrete surfaces, unless indicated to be coated in room finish schedule.
  - 4. All building components other than the concrete floor slabs.
  - 5. All exterior concrete.

3.3 EXAMINATION

- A. With Applicator present, examine substrates and conditions under which high-performance coatings will be applied, for compliance with coating application requirements.
  - 1. Apply coatings only after unsatisfactory conditions have been corrected and surfaces to receive coatings are thoroughly dry.
  - 2. Start of application is construed as Applicator's acceptance of surfaces within that particular area.
- B. Coordination of Work: Review other Sections in which primers or other coatings are provided to ensure compatibility of total systems for various substrates. On request, furnish information on characteristics of specified finish materials to ensure compatible primers.
  - 1. If a potential incompatibility of primers applied by others exists, obtain the following from the primer Applicator before proceeding:
    - a. Confirmation of primer's suitability for expected service conditions.
    - b. Confirmation of primer's ability to be top coated with materials specified.
  - 2. Notify Engineer about anticipated problems before using the coatings specified over substrates primed by others.

3.4 GENERAL PREPARATION

- A. Remove plates, machined surfaces, and similar items already in place that are not to be coated. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and coating.
  - 1. After completing coating operations, reinstall items that were removed; use workers skilled in the trades involved.
- B. Environmental Conditions
  - 1. Prior to the start of any coating work (surface preparation or coating application) verify conditions are within acceptable limits as specified.
    - a. Ambient air temperature shall be in the same areas as the work being performed.

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- b. Minimum and maximum surface temperatures and air temperatures shall be as indicated in writing from coating manufacturer. Minimum surface and air temperatures shall not be less than 45 degrees F and maximum surface and air temperatures shall not more than 95 degrees F, unless approved, in writing, by coating manufacturer's authorized representative and Engineer. Temperatures shall be followed for standard coating; shall not be adjusted for accelerator.
- c. Ambient air temperature and surface temperature of substrate shall be at least 5 degrees F above dew point. If the difference is less than 10 degrees F; on following measurements, the difference shall be increasing.
- d. Relative humidity shall be less than 85 percent.
- e. Coating application and surface preparation shall not be performed in rain, snow, fog or mist.
- f. Allow any wet or damp surfaces to dry thoroughly, and attain temperature prior to beginning coating application or surface preparation.
- g. Avoid painting surfaces exposed to hot sun.
  - 1) Provide artificial shade if required.
- h. Any additional environmental requirements stated on manufacturer's data sheets shall also be followed.
- i. Entire area where work is being performed shall be adequately ventilated. Use artificial methods if work space doesn't vent naturally.
  - 1) Provide adequate ventilation of confined spaces to prevent dust/blast media from accumulating or coming in contact with wet paint.

C. Artificial Environmental Control

- 1. Provide temporary heating as required (in-direct fired type only).
  - a. Provide clean heat with heat exchanger type equipment sufficient in size to maintain temperature.
  - b. No exhaust gases shall be allowed to vent into the space being painted.
- 2. Provide temporary dehumidification equipment as required to maintain humidity levels within specified limits, if necessary to complete Work.
- 3. Provide temporary ventilation equipment as required to complete Work.

D. Prepare surfaces to be coated in accordance with coating manufacturer's instructions and this Section unless noted otherwise in the Specification.

E. Remove all dust, grease, oil, compounds, dirt and other foreign matter which would prevent bonding of coating to surface.

- 1. Adhere to manufacturer's recoat time surface preparation requirements.
  - a. Recoat time surface preparation requirement will not be waived.
  - b. Schedule cleaning and coating application so dust and other contaminates from cleaning process will not fall on wet, newly coated surfaces.

3.5 SURFACE PREPARATION

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- A. Clean and prepare surfaces to be coated according to manufacturer's written instructions for each substrate condition and as specified. Surfaces shall be prepared in accordance with Sherwin Williams Form G-1 "Instructions for Concrete Surface Preparation."
  
- B. Concrete Surfaces
  - 1. All concrete surfaces shall be allowed to cure for 28 days minimum.
  - 2. Mechanically abrade concrete surfaces in accordance ASTM D 4259 and/or abrasive blast in accordance with NACE No. 6/SSPC-SP 13 as recommended by coating manufacturer. Concrete surface shall have a surface profile, as measured in accordance with ICRI Guideline No. 310.2R, minimum profile of CSP 3.
  - 3. Patch surfaces prior to coating.
  - 4. Fill all bug holes and voids. There shall be no bug holes or voids present after application of repair surfacing.
  - 5. Clear surface in accordance with ASTM D 4258. Surface shall not contain any form release agents, curing compounds, laitance, dust, dirt, concrete hardeners or other materials that will interfere with the bond of the coating.
  - 6. Verify pH of surface is within acceptable limits indicated by coating manufacturer. Test pH in accordance with ASTM D 4262.
  - 7. Verify moisture content is within acceptable limits indicated by coating manufacturer. Test moisture content in accordance with ASTM D 4263 and/or ASTM F 1869.
  - 8. Provide termination groove and transitions between surfaces as detailed in Plans (if not detailed as required by manufacturer's standard details).

### 3.6 APPLICATION

- A. General: Apply high-performance coatings according to manufacturer's written instructions.
  - 1. Use applicators and techniques best suited for the material being applied.
  - 2. Thin, mix and apply coatings by brush, roller, or spray in accordance with manufacturer's installation instructions.
  - 3. Surface Cleanliness
    - a. Do not apply high-performance coatings over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable coating film.
    - b. Avoid degradation and contamination of blasted surfaces and avoid intercoat contamination.
      - 1) Clean contaminated surfaces before applying next coat.
  - 4. Provide complete coverage to dry film thickness specified.
    - a. No individual gage readings shall be lower than specified.
  - 5. If so directed by Engineer, do not apply consecutive coats until Engineer has had an opportunity to observe previous coats.
  - 6. Apply materials under adequate illumination.
  - 7. Evenly spread to provide full, smooth coverage.
  - 8. Smooth out runs or sags immediately, or remove prior to next coat; if on top coat remove and reapply entire top coat.
  - 9. Allow preceding coats to dry before recoating.

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- a. Allow sufficient time between successive coats to permit proper drying. Do not recoat surfaces until coating has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and application of another coat does not cause undercoat to lift or lose adhesion.
  - b. Do not apply succeeding coats until previous coat has cured as recommended by manufacturer.
  - c. Recoat within time limits specified by coating manufacturer.
  - d. If recoat time limits have expired reprepare surface in accordance with coating manufacturer's printed recommendations.
  - e. If epoxy coating is exterior exposed for more than 30 days, coating shall be lightly brush blasted prior to application of next coat.
10. Allow coated surfaces to cure prior to allowing traffic or other work to proceed.
  11. Coating colors, surface treatments, and finishes are indicated in the coating system descriptions.
  12. Provide finish coats compatible with primers used.
  13. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, grilles, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
    - a. Coat surfaces behind movable equipment the same as similar exposed surfaces. Before final installation, coat surfaces behind permanently fixed equipment with prime coat only.
    - b. Coat back sides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
    - c. Pipe surfaces covered by pipe supports shall be coated with entire specified system prior to the installation of the pipe support.
  14. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
  15. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
  16. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.
  17. Where manufacturer's written instructions require sanding, sand between applications to produce a smooth, even surface.
- B. Material Preparation: Carefully mix and prepare coating materials according to manufacturer's written instructions.
1. Maintain containers used in mixing and applying coatings in a clean condition, free of foreign materials and residue. If a bucket must be kept open, keep in an area protected from wind and wind-blown debris. Strain any coating that gets contaminated.
  2. Stir materials before applying to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into the material. Remove film and, if necessary, strain coating material before using.
  3. For multiple component coatings, stir components individually prior to mixing.
  4. Do not mix previously catalyzed material with newly mixed material.
  5. Use only the type of thinners approved by manufacturer (if thinning is approved by Engineer) and only within recommended limits.
    - a. Exact quantity of thinner shall be measured and recorded prior to mixing with coating material.

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C. Prime Coat:

1. Apply prime coat within 8 hours of start of surface preparation. Surface shall not be allowed to flash rust prior to application of coatings.
2. Prime coat can be shop applied if the following conditions are met:
  - a. Shop applied prime coats shall be same as prime coat indicated for specified system to be applied.
  - b. Submit form, included at end of this Section, for all products that have shop primed. Form shall be included in submittal documents.
  - c. Written notice is provided to Engineer at least two (2) weeks in advance.
  - d. Coordinate schedule of shop priming with Engineer to allow for observation.
  - e. Engineer or Coating Inspector is allowed access to shop to observe surface preparation and/or coating application.
  - f. Quality control requirements shall be the same as specified in this Section for “Field Quality Control”.
    - 1) Documentation shall be provided at the same interval as specified.
    - 2) Documentation shall be provided prior to the equipment arriving on site.

D. Intermediate/Top Coats:

1. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance. Give special attention to edges, corners, crevices, welds, exposed fasteners, and similar surfaces to ensure that they receive a dry film thickness equivalent to that of flat surfaces.

E. Application Procedures:

1. Brush Application: Use brushes best suited for material applied and of appropriate size for the surface or item being coated.
  - a. Brush out and work brush coats into surfaces in an even film.
  - b. Eliminate cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Neatly draw glass lines and color breaks.
2. Rollers: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by manufacturer for the material and texture required.
3. Spray Application: Use mechanical methods to apply coating if permitted by manufacturer's written instructions and governing regulations.
  - a. Conventional Air Spray:
    - 1) Use spray equipment with orifice size recommended by manufacturer for material and texture required.
    - 2) Provide compressed air for conventional air spray that is free of water and oil.
      - a) Provide accessible separators and traps.
      - b) Perform blotter test at start of work and after extended breaks. Test in accordance with ASTM D 4285.
  - b. Airless Spray:

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- 1) Use equipment (pump, orifice, etc.) sized appropriately for the application as recommended by manufacturer.
- F. Minimum/Maximum Coating Thickness: Apply each coat no thinner or thicker than manufacturer's recommended thickness. Provide total dry film thickness of each system as specified.
1. The number of coats and film thickness required is the same regardless of application method.
- G. Completed Work: Match approved Samples for color, texture, and coverage. Remove, refinish, or recoat work that does not comply with specified requirements.
- 3.7 CURING
- A. Environmental conditions shall be monitored and maintained until coating has sufficient time to cure. If required by ambient conditions, artificial environmental control shall be used during the cure of the coating.
- B. Ventilation (natural or artificial) shall also be continued until coating has achieved complete cure.
- 3.8 CLEANING
- A. Cleanup: At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
1. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- 3.9 PROTECTION
- A. Protect work of other trades, whether being coated or not, against damage from coating operation. Correct damage by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.
1. Provide "Wet Paint" signs to protect newly coated finishes. After completing coating operations, remove temporary protective wrappings provided by others to protect their work.
  2. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces. Comply with procedures specified in PDCA P1.
- 3.10 FIELD QUALITY CONTROL
- A. Maintain Daily Records:
1. Applicator shall provide daily records.
  2. Daily records of each coating job shall be submitted when coating is completed.
  3. Daily records shall include the following:
    - a. Date, starting time, end time, and all breaks taken by painters.
    - b. Area worked and work performed in area.
    - c. Start and end time of any coating application.

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- d. Batch numbers, dates, and quantity of coating used each day.
  - e. All quality control information below.
- B. Applicator is required to provide all equipment necessary to perform quality control work. All equipment shall be specifically designed for intended use.
- C. Quality control shall be performed by only qualified personnel.
- D. Environmental Conditions
- 1. The information required shall be measured and recorded during surface preparation, coating application and during the time required to achieve the necessary curing time.
  - 2. Readings shall be taken in the morning prior to starting work, after lunch and at the end of the day prior to leaving the site. Readings may be required more frequently if the environmental conditions are continually changing. Frequency may be considered a judgement call. Applicator is responsible for any work affected by changing environmental conditions.
  - 3. The information required shall include but not be limited to the following:
    - a. For exterior painting:
      - 1) Sky condition.
      - 2) Wind speed and direction.
    - b. Air temperature
    - c. Relative humidity
    - d. Dew point
    - e. Surface temperature of substrate to which paint is being applied.
    - f. Date and start time of cure period.
    - g. Written documentation of all occurrences when air temperature, humidity, dew point or surface temperature reached or violated manufacturer's recommended minimum or maximum limits.
- E. Surface Preparation
- 1. Visually inspect entire surface for any visible contaminants (oil, dust, dirt, rust, mill scale, etc.). Document and correct any contaminants found.
  - 2. Surface profile measurements
    - a. Surface profile measurements of all cleaned surfaces shall be taken at minimum every 100 sq. ft.
- F. Application
- 1. Verify mixing and induction (sweat-in) times are met. Document shortest times.
  - 2. Verify pot life is not exceeded. Document longest times.
  - 3. Verify mixing is being performed in accordance with manufacturer's written recommendations.
  - 4. Verify and document amount of thinner used.
  - 5. Document method of application.
  - 6. Wet mil thickness verification frequency is not required. Applicator to perform as necessary to ensure consistent thickness. Document any wet mil thickness measurements performed.
  - 7. After each coat has sufficiently cured, perform dry mil thickness verification. Perform measurements in accordance with ASTM D 7091. Frequency of measurements shall be in accordance with SSPC-PA2, with the following modifications.

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- a. Average readings per the standard with restrictions as noted in “Level 2”, except individual gage readings shall also be restricted to as specified. All individual gage readings shall be above specified mil thickness.
- b. Coating Inspector shall be present during measurements taken of the completed coating system.

G. Curing

1. Provide environmental data at minimum every 12 hours during the curing period.
2. Perform solvent rub test in accordance with ASTM D 5402, if environmental data provided is inadequate to determine cure.

H. Adhesion Test

1. Owner reserves the right to have the Applicator conduct coating adhesion tests, if cleanliness or surface preparation are questioned.
2. Applicator is responsible for the cost and repair of the adhesion test.
3. Adhesion test shall be performed in accordance with ASTM D 4541.
4. Adhesion tests will not be performed more than once every 1000 sq. ft. of coated surface.
  - a. If adhesion test fails, additional tests may be performed at the Applicator’s expense to determine extent of non-adherent coating.

I. Summary Report

1. At completion of Work, prepare and submit a summary report.
2. Summary report shall include the following:
  - a. Dry film thickness reports.
  - b. Holiday test reports, if performed.
  - c. Adhesion test reports, if performed.
  - d. All coating batch numbers used.
  - e. All repairs performed.

3.11 COORDINATION WITH OWNER OBSERVATION (COATING INSPECTOR)

- A. The Owner may choose to hire a coating inspector to observe all aspects of the work covered by these Specifications.
- B. Contractor or Applicator shall provide access and safety equipment, if necessary, for coating inspector and/or resident project representative to all areas where coating work is being performed.
- C. Applicator is responsible for coordination of Work with Coating Inspector. Applicator shall hold to allow observation by Coating Inspector at the following points:
  1. After surface preparation, but before application of prime coat.
  2. Between coats.
  3. Prior to performing repairs.
- D. Coating Inspector shall be present for the following tests.
  1. Dry film thickness measurements for completed coating system.

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2. Adhesion testing.
- E. Coating inspector may perform tasks similar to Applicator required quality control items. The performance of these tasks does not relieve the Applicator of having to perform these requirements.
    1. In the event that readings between the coating inspector's equipment and Applicator's equipment are substantially different; the calibration of both instruments shall be verified.
      - a. If readings still conflict, new readings shall be taken with the following equipment, provided by the Applicator:
        - 1) Ambient Conditions: Sling Psychrometer and Psychrometric Tables from the National Weather Service.
        - 2) Surface Temperature: Magnetic Surface Contact Thermometer.
        - 3) Dry Film Thickness: Type 1 – Magnetic Pull-Off Gage w/ calibration certificate within the past 6 months.
  - F. The Contractor will be required to provide at least a seven (7) calendar day written notice to the Engineer/Owner to provide adequate time to schedule the observation. In the event that the Contractor must cancel a scheduled observation, the Contractor must notify the Engineer at least two (2) working days (not less than 48 hours) in advance of the scheduled inspection or will be responsible for all expenses as discussed in Part 3.11 G.
  - G. In the event of a failed test that requires the Coating Inspector to return to the site for observation of the repair and retest of the failed work, the Contractor will be responsible for reimbursing the Owner for all expenses related to the additional inspection/test up to a maximum of \$1,000.00 per day.
    1. These costs will be incorporated into the Contract via Change Order at the completion of the coating work.

### 3.12 REPAIR OF COATING DEFECTS

- A. Coating defects include all spots found during the holiday test, gouges or wear from other trades or assembly, issues found during manufacturer's walk through at completion of coating work, and anything that doesn't resemble a uniform, undisturbed coating.
- B. All repairs shall be performed in accordance with coating manufacturer's written recommendations. Written recommendations shall be provided prior to any repairs being made. For typical repairs, provide written recommendations prior to the start of any coating work.
- C. Coating manufacturer shall supply written recommendations for typical coating defects (such as runs/sags, gouges, misses, excessive film thickness, chalking, overspray) prior to the start of coating work.
- D. Repair coatings shall consist of the same number of coats and thicknesses as the coating system that is being repaired.

END OF SECTION 09 6723



