



# Utility Engineering Consultants, *LLC*

Phone : 205.951.3838  
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135 Gemini Circle, Suite 211  
Homewood, AL 35209  
P.O. Box 21918  
Birmingham, Alabama 35219

March 20, 2025

The City of Marion, Alabama  
123 East Jefferson Street  
Marion, Alabama 36756

**RE: The City of Marion, Alabama  
Proposed Marion "Swimming Pool" Tank Rehabilitation Project  
DRA Project No. AL-7730**

All Contractors shall acknowledge receipt of Addendum No. 2 for above referenced job by signing and returning this statement by fax to (205) 951-3839 or email to [ktwymon@uecllc.com](mailto:ktwymon@uecllc.com)

Contractor: \_\_\_\_\_

Received by: \_\_\_\_\_

Date: \_\_\_\_\_



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123 East Jefferson Street  
Marion, Alabama 36756

**RE: The City of Marion, Alabama  
Proposed Marion “Swimming Pool” Tank Rehabilitation Project  
DRA Project No. AL-7730**

## ADDENDUM NO. 2

The changes, modifications and/or additions covered by and set forth in this Addendum No. 2 shall become part of and be incorporated in the Specifications, Contract Documents and Bid Documents for the above referenced project.

## CLARIFICATIONS

- There are no records of the tank coating history. The tank contractor shall test both exterior and interior for lead. A revised Proposal Form is part of this addendum which has included a Pay Item for lead abatement.
- The tank can be isolated from the distribution System. Marion water pressure to maintain adequate with this tank off-line. We would like The contract work period To occur between May 31, 2025(Began) and November 20, 2025(Completion).
- The budget for the project is \$220,000.
- A list of plan holders is located on our website. It will be periodically updated until the date of the bid.
- We will have a third-party for performing the inspections. As of the date of this addendum, we have not determined which one will be providing their services on this project.
- All antennas and radio equipment located on the tank will be the responsibility of the owner to have removed and replaced.
- A copy of the proposed logo is attached in this addendum. The cost for placement of this logo shall be included in the lump sum cost for exterior coating of the tank and it's considered incidental work.
- We have no record of when the tank was erected.
- We have no record of the vent size. This will be field determined after the Bid.
- Please note the Bid Packet documents can be submitted electronically prior to the Bid date and Bid time. The documents can be sent to [rhawkins@uecllc.com](mailto:rhawkins@uecllc.com) and copy [dexterhinton2@gmail.com](mailto:dexterhinton2@gmail.com). If you do not get a “Receipt Confirmation” please call Rod Hawkins at (205) 540-4615.



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- The pool located next to the Tank is abandoned and no longer used.
- There are no prior Inspection Reports.

## CONTRACT DOCUMENTS AND SPECIFICATIONS

- Section 5 Bid for Unit Price Contracts for the Proposed Marion "Swimming Pool" Tank Rehabilitation Project. Please see attached Addendum No. 2 Proposal Form, adding Item #5, this form will replace the Proposal Form in Section 5 pages 7 through 9 of your Specifications.
- Section 13202 - TNEMEC Tank Coating shall be replaced with attached

This Addendum No. 2 shall be made a part of your set of Construction Contract Documents and Specifications. Acknowledgment of receipt of Addendum No.2 shall be noted in the Bid for Unit Price

## UTILITY ENGINEERING CONSULTANTS, LLC.

Roderick Hawkins, P.E.

RH/kt

Attachment: Section 5 Bid for Unit Price Contracts  
Section 13202 - TNEMEC Tank Coating  
Proposed Tank LOGO

5.

**BID FOR UNIT PRICE  
CONTRACTS**

Place: City of Marion, Alabama

Date: \_\_\_\_\_

Project No. DRA PROJECT NO. AL-7730

Proposal of \_\_\_\_\_ (hereinafter called "Bidder") doing business as [a corporation\*], organized and existing under the laws of the State of Alabama. To the City of Marion (hereinafter called "Owner").

Ladies and Gentlemen:

The Bidder, in compliance with your invitation for bids for the construction of a The City of Marion Proposed Marion "Swimming Pool" Tank Rehabilitation Project DRA Project No. AL-7730

having examined the plans and specifications with related documents and the site of the proposed work and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the contract documents, within the time set forth therein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the contract documents, of which this proposal is a part.

Bidder hereby agrees to commence work under this contract on or before a date to be specified, written "Notice to Proceed" of the Owner, and to fully complete the project within 90 consecutive calendar days thereafter as stipulated in the specifications. Bidder further agrees to pay as liquidated damages, the sum of \$ 700.00 for each consecutive calendar day thereafter as hereinafter provided in Paragraph 19 of the General Conditions.

Bidder acknowledges receipt of the following addendum:

\_\_\_\_\_  
\_\_\_\_\_

\* - Insert corporation, partnership or individual as applicable

Bidder agrees to perform all the The City of Marion Proposed Marion “Swimming Pool” Tank Rehabilitation Project DRA Project No. AL-7730 work described in the specification and shown on the plans, for the following unit prices:

PROPOSAL FORM

No.	Description	Quantity	Bid Unit Cost	Bid Cost
1.	Clean and Coat Interior and Exterior of the Marion 100,000 Gallon (this will be changed and referenced in the addendum) Elevated “Swimming Pool” Tank in accordance with the Specification Documents in Section 13202 or 13203 Furnish and Install <p style="text-align: right;">Per LS</p>	1 LS		
2.	Provide all Materials, Labor, and Equipment needed to provide containment for the 100,000 Gallon (this will be changed and referenced in the addendum) Elevated Tank noted in the Appendix. Furnish and Install <p style="text-align: right;">1 LS</p>	1 LS		
3.	Remove and Install Vent Screen and Shield <p style="text-align: right;">Per LS</p>	1 LS		
4.	Tack Weld at locations where needed <p style="text-align: right;">Per EA</p>	20 EA		
5.	Provide Lead Abatement (Complete Paint Removal Method) of existing interior and exterior coating (If applicable). <p style="text-align: right;">Per LS</p>	1 LS		
<b>TOTAL OF BID</b>				

NOTE: Amounts are to be shown in both written form and figures. In case of discrepancy, the written Total Bid Amount shall govern.

Written Form of Bid

Total \_\_\_\_\_

(Amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

The above unit prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

Required excavation for turn-outs and subgrade build-up used for road beds.

The bidder agrees that this bid shall be good and may not be withdrawn for a period of 30 calendar days after the scheduled closing time for receiving bids.

Upon receipt of written notice of the acceptance of this bid, bidder will execute the formal contract attached within ten (10) days and deliver a Surety Bond or Bonds as required by Paragraph 29 of the General Conditions. The bid

March 20, 2025  
Addendum No. 2

security attached in the sum of \_\_\_\_\_ (\$ \_\_\_\_\_) is to become the property of the Owner in the event the contract and bond are not executed within the time above set forth, as liquidated damages for the delay and additional expenses the Owner caused there.

Respectfully submitted:

By \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Business Address & Zip Code)

(SEAL – if bid is a corporation)

**SECTION 13202**

**TNEMEC TANK COATING**

**PART 1- GENERAL**

**1.1 SCOPE**

- A. This specification covers repair, preparation of surfaces, performance and completion of painting of exterior surface specified on the following structures:
  - 1. One Elevated Storage Tank 100,000 Gallon (this will be changed and referenced in the addendum) Capacity is located in the City of Marion, Alabama.
- B. The CONTRACTOR shall be responsible for all costs associated with painting and repair operations as outlined in these specifications.
- C. The Water System can maintain system pressure while the tank is being coated. The Tank can be valved off.

**1.2 WORK INCLUDED**

- A. Preparation of surfaces which are to receive finishes.
- B. Disposal of blasting debris
- C. Tank repairs and modifications
- D. Finish surfaces
- E. Testing and cleaning

**1.3 RELATED WORK AND APPLICABLE REQUIREMENTS SPECIFIED ELSEWHERE**

Bidding Requirements, Contract Form and Conditions of the Contract and General Requirements shall apply to all work included in this section.

**1.4 DOCUMENTS AND STANDARDS**

- A. Coating manufacturers' printed instructions.
- B. American Society of Testing Materials
  - 1. ASTM B117 Salt Spray (Fog)
  - 2. ASTM D149 Dielectric Strength
  - 3. ASTM D4060 Abrasion
  - 4. ASTM D4541 Adhesion
  - 5. ASTM D4585 Humidity
  - 6. ASTM G53 QUV Exposure
  - 7. ASTM D 4141 Exterior Exposure (EMMAQUA)
- C. American National Standards Institute/National Sanitation Foundation

1. ANSI/NSF Standard 61 Listed Drinking Water System Components -Health Effects
- D. American Water Works Association
  1. AWWA Standard C652-92 Disinfection
  2. AWWA Standard D100-05 Welded Steel Tanks for Water Storage
  3. AWWA Standard D102-14 Painting Steel Water Storage Tanks
- E. Code of Federal Regulations
  1. 29 CFR 1910 Occupational Safety and Health Standards (General Industry Standards)
  2. 29 CFR 1910.134 Respiratory Protection
  3. 29 CFR 1910.1020 Access to Employee Exposure and Medical Records
  4. 29 CFR 1926 Safety and Health Regulations for Construction (Construction Industry Standards)
  5. 40 CFR 50 National Primary and Secondary Ambient Air Quality Standards
  6. 40 CFR 268 Land Disposal Restrictions
  7. All other Applicable State and Federal Regulations
- F. National Institute for Occupational Health and Safety
- G. Occupational Safety and Health Administration
- H. Steel Structures Painting Council (SSPC)
  1. SSPC-SP 1 Solvent Cleaning
  2. SSPC-SP 2 Hand Tool Cleaning
  3. SSPC-SP 3 Power Tool Cleaning
  4. SSPC-SP 6 Commercial Blast Cleaning
  5. SSPC-SP 10-63 Near White Blast Cleaning
  6. SSPC WJ 4 Light Cleaning

## **PART 2 – MATERIALS**

### **2.1 QUALITY OF COATINGS**

- A. paints and paint products of the *Tnemec Company, Inc.*, mentioned in the following specifications are set up as standards of quality. The usual "or equal" clause shall apply. No request for substitution will be considered which decreases the film thickness and/or the number of coats to be applied, or which offers a change from the generic type of coating specified. Request for substitution shall contain the following:
  1. Full Name of Each Product
  2. Supportive Literature
  3. Applications For Use
  4. Coating Type
  5. Volatile Content by Volume
  6. Performance Data Listed in Section 3.8.
  7. Life Cycle Cost Analysis based on actual case histories of projects completed with the Proposed Coating System.
- B. Bidders desiring to use paints other than those specified shall submit their proposal based on the specified materials. Submittals shall include a side-by-side comparison of the performance attributes of the proposed materials as compared to the specified coatings. In



no case will the request be considered unless received, in writing, ten days prior to the bid opening date.

## 2.2 CERTIFICATIONS

Protective coatings for interior wet application shall be listed by NSF International as approved for potable water contact in accordance with NSF/ANSI/CAN 600.

## 2.3 SHIPPING, STORAGE AND HANDLING

- A. All paints shall be properly prepared by the manufacturer and delivered to the site for field painting in the original unbroken containers with manufacturers', label plainly printed thereon. The type of material to be applied at each location shall be submitted to the Engineer with the manufacturer's written recommendation of the type of paint for each item to be painted.
- B. All coatings shall be stored in an enclosed structure to protect them from weather and excessive heat or cold. Flammable coatings must be stored to conform to City, County, State and Federal safety codes for flammable coatings or paint materials. At all times coatings shall be protected from freezing.

## 2.4 COATING SYSTEM

Following surface preparation, all interior and exterior surfaces shall be coated as hereinafter specified. The primer shall be applied in accordance with the recommendations of the manufacturer and not more than eight hours after surface preparation

## 2.5 ONE ELEVATED STORAGE TANK (100,000 GALLON CAPACITY - THIS WILL BE CHANGED AND REFERENCED IN THE ADDENDUM)

### A. Interior Surfaces

1. Surface Preparation: Remove all oil, grease and other soluble contaminants in accordance with SSPC-SP 1 Solvent Cleaning. All surfaces shall be abrasive blast cleaned in accordance with SSPC-SP 10 Near White Blast Cleaning. Surface profile shall be 1.5 - 2.5 mils. All surfaces shall be clean and dry. All surfaces shall be primed within eight hours of surface preparation and/or before flash rusting of the surface occurs. Should either condition exist the substrate shall be re-blasted to achieve the desired level of cleanliness.
2. Coating System Certification: The coating system primer and finish shall meet the health effects requirements of NSF/ANSI/CAN 600 according to the requirements of NSF/ANSI/CAN 61.
3. Primer: All surfaces shall receive one coat of Tnemec Series 91 H20 Hydro-Zinc applied at a rate to achieve 2.5 - 3.5 mils DFT.
4. Stripe Coat: All weld seams, ladders, roof beams, as well as any other difficult to coat surface shall receive one stripe coat of Tnemec Series N140-1255 Pota-Pox Plus applied, by brush, at a rate to achieve 2.0 – 4.0 mils DFT.
5. Intermediate: Tnemec Series 21-1255 Epoxoline applied at a rate to achieve 4.0 – 6.0 mils DFT.

6. Finish: Tnemec Series 21.WH16 Epoxoline applied at a rate to achieve 10.0 – 12.0 mils DFT.
7. Total Dry Film Thickness: The total dry film thickness shall be not less than 16.5 mils.

B. Exterior Surface

1. Surface Preparation:
  - a. Remove all oil, grease and other soluble contaminants in accordance with SSPC-SP 1 Solvent Cleaning. All surfaces shall be abrasive blast cleaned in accordance with SSPC-SP 10 Near White Blast Cleaning. Surface profile shall be 1.5 - 2.5 mils. All surfaces shall be clean and dry. All surfaces shall be primed within eight hours of surface preparation and/or before flash rusting of the surface occurs. Should either condition exist the substrate shall be re-blasted to achieve the desired level of cleanliness.
  - b. Containment: The Contractor shall install a containment system meeting the requirements of Class 3A as specified in the SSPC Guide 6 (12) “Guide for Containing Debris Generated During Paint Removal Operations”. Assessment of the containment system will be conducted in accordance with SSPC Guide 6 Section 5.5. All testing required will be paid by the Contractor. The standards and references listed in Section 3A of SSPC Guide 6 (92) shall form and be part of these specifications. The Contractors shall utilize SSPC Guide 6 for the development of the containment system. All workers shall be protected in accordance with all applicable OSHA Standards.
2. Primer: All surfaces shall receive one coat of Tnemec Series 91 H20 Hydro-Zinc applied at a rate to achieve 2.5 - 3.5 mils DFT.
3. 1<sup>st</sup> Intermediate: Tnemec Series 66-1255 Pota-Pox applied at a rate to achieve 2.0 – 3.0 mils DFT.  
2<sup>nd</sup> Intermediate: Tnemec Series 1075 Endura-Shield II applied at a rate to achieve 2.0 – 3.0 mils DFT.
4. Finish: Tnemec Series 700 HydroFlon applied at a rate to achieve 2.0 - 3.0 mils DFT.
5. Lettering / Logo: All lettering and logos are to be applied using two coats of Tnemec Series 700 HydroFlon applied at a rate to achieve 2.0 - 3.0 mils DFT per coat.

**2.4 LETTERING AND TARGET MARKINGS**

- A. All tank lettering shall be replaced with matching lettering to be approved by the Owner and Engineer if applicable.
- B. Target markings shall be installed and painted on exterior of tank with Tnemec Series 700 HydroFlon applied at a rate to achieve 2.0 – 3.0 mils DFT.

**2.5 DEBRIS DISPOSAL**

- A. Disposal of Debris: Until testing demonstrates otherwise, all debris collected by the containment system will be considered hazardous waste and shall be handled and disposed of in accordance with federal and state regulations. SSPC Guide 7 “ Guide for Disposal of Lead Contaminated Surface Preparation Debris” shall be considered as part of this specification. The Contractor shall pay for all testing required to determine if the

collected material is hazardous.

- B. All debris shall be disposed of off-site in accordance with all Local, State and Federal Regulations.

**PART 3 –**  
**APPLICATION**

**3.1 GENERAL**

- A. Prepare surface and touch-up welds, burned and abraded areas on primed steel with specified primer before applying field coats.
- B. The painter shall mix, thin and apply each coating at the rate and manner specified by the manufacturer's printed instructions. Deficiencies in film thickness shall be corrected by the application of an additional coat(s) of paint.
- C. All coatings shall be applied in strict accordance with the applicable manufacturer's current printed product data sheet(s) and container labels. Coatings shall not be applied above or below the minimum and/or maximum surface temperatures as stated on the product data sheet(s) and shall not be applied to wet or damp surfaces, in rain, snow, fog or mist. Surface temperature must be at least 5°F above the dew point.
- D. The exterior intermediate and finish coat shall be applied by brush or roller. All stripe coats shall be applied by brush.
- E. Painting shall be completed well in advance of the probable time of day when condensation will occur and/or the surface temperature is expected to drop below the minimum listed on the applicable product data sheet(s).
- F. Finish coats shall be uniform in color and sheen without streaks, laps, runs, sags or missed areas.
- G. The manufacturer's recommended curing time shall elapse before the next coat is applied. Adequate ventilation shall be provided for proper drying of paints on interior tank surfaces. A minimum of 7 days following the application of the final coat on the interior surfaces shall be allowed before the tank is flushed, disinfected or filled with water.
- H. Clean-Up: All cloths and waste that might constitute a fire hazard shall be placed in closed metal containers or destroyed at the end of each day. Upon completion of the work, all staging, scaffolding, and containers shall be removed from the site and/or destroyed in an approved and legal manner. Paint spots, oil, or stains upon adjacent surfaces and floors shall be completely removed, and the entire job left clean and acceptable to the Engineer.

**3.2 EXISTING UTILITIES, STRUCTURES AND PROPERTIES**

It shall be the responsibility of the contractor to locate and avoid damage to any and all existing water, gas, sewer, electric, telephone, and other utilities, structures, or appurtenances. The Contractor shall repair or pay for all damages caused by his operations or his personnel to existing utilities, structures, appurtenances, or properties, either below ground or above ground and shall settle in full all damage suites which may arise as a result of his operations.

**3.3 VENTILATION**

It is essential that the solvent vapors released during and after application of coatings be removed from the tank. During coating application, the capacity of ventilating fans shall be at least 300 cfm per gallon of coating applied per hour. Continuous forced ventilation at a rate of at least one complete air change per 4 hours shall be provided for at least 7 days after coating application is completed. Air shall be exhausted from the lowest portions of the tank with the top openings kept open and clear. A minimum of seven days (manufacturers printed instructions shall be followed for cure times at various temperatures) following application of the final coat on the interior shall be allowed before the tank is sterilized or filled with water.

**3.4 SAFETY**

- A. First entry of the tank shall be a confined space entry and Contractor shall comply with all OSHA regulations regarding confined space entry.
- B. Contractor shall furnish two (2) of each of the following for use by the Owner's representatives during cleaning and coating activities:
  - 1. Two (2) OSHA approved safety devices for ladders.
  - 2. Two (2) NIOSH approved full face respirators with replacement cartridges.  
Respirators shall include a nose cup to reduce lens fogging.
- C. Contractor shall provide sufficient lighting of the work area for both safety and coating/surface preparation inspection activities.

**3.5 DAILY LOG**

- A. The Contractor shall keep a daily log in which he shall record the following information shall be recorded:
  - 1. Air Temperature: Air temperature readings shall be taken at intervals throughout the day's work. Readings shall be taken at the start of the morning's work, mid-day and afternoon. Should environmental conditions change, additional reading shall be taken to assure that coatings are being applied under the conditions as

- outlined by the coatings manufacturer.
2. Surface Temperature: Surface temperatures shall be taken in areas where work is being performed. Surface temperature shall be that as specified by the coatings manufacturer.
  3. Material Temperature: Material temperature reading shall be taken prior to the application of the paint.
  4. Relative Humidity: Relative humidity readings shall be taken at intervals throughout the day's work. Readings shall be taken at the start of the morning's work, mid-day and afternoon. Should environmental conditions change, additional reading shall be taken to assure that coatings are being applied under the conditions as outlined by the coatings manufacturer.
  5. Dew Point: Dew point readings shall be taken at intervals throughout the day's work. Readings shall be taken at the start of the morning's work, mid-day and afternoon. Should environmental conditions change, additional reading shall be taken to assure that coatings are being applied under the conditions as outlined by the coatings manufacturer.
  6. Blast Profile: Following blasting operations, the Contractor shall take and record the depth of the blast profile. Blast profile measurements shall be taken using Testex X Course Replica Tape. Replica Tape shall be included in the daily log.
  7. Detail or Work Performed During the Day: Area where work was performed and the extent of the work performed shall be included in the daily log.

### 3.6 TESTING EQUIPMENT

- A. In addition to the equipment required to take measurements which will be included in the daily log, The Contractor shall have on the project site the following testing equipment. Equipment shall be in calibration and proper working order.
- B. Measurement of Temperature, Humidity, Dew Point and Surface Temperature. On days when painting is being performed, the Contractor shall monitor and record as outlined below the ambient climatic conditions for the exterior of the tank:
  1. Air temperature, humidity and dew point at two (2) locations and surface temperature at four (4) different locations, shall be measured and recorded by the Contractor during the application of all paints in order to prevent application over moisture and monitor cure times for each coat.
  2. Air temperature, humidity, dew point, and surface temperature shall be measured and monitored by the Contractor continuously during the final cure of the finish coat.
  3. For the purpose of monitoring the above conditions, the Contractor shall install two (2) Dickson Temperature, Humidity and Dew Point Recorders, Model THDx with a temperature range of -20°F to 120°F. Both instruments shall be furnished with NBS Traceable Calibrations, sufficient quantity of 24-hour charts and pens, one 50 foot and one 100 foot probe extensions. The Contractor shall also furnish four (4) PTC/312F Surface Thermometers.
- B. High Voltage Holiday Detection Equipment: Interior surfaces, following a minimum of 96 hours cure, shall be holiday detected in accordance with NACE SP0188-99 high voltage

holiday detection. Holiday detector shall be a Tinker & Razor model AP/W Holiday D or equal. Areas found to have holidays shall be marked and repaired in accordance with the paint manufacturer's instructions. The Engineer shall be notified of time of testing so that he might be present to witness testing.

### **3.7 GUARANTEE AND ANNIVERSARY INSPECTION**

- A. In accordance with AWWA D102-21, Section 5.2, all work shall be warranted for a period of two years from the date of completion.
- B. The Owner will notify the Contractor at least 30 days prior to the anniversary date and shall establish a date for the inspection. The tank will be drained and the Owner's representative and the Contractor shall thoroughly inspect all surfaces both inside and out. Any defects in the coating system shall be repaired by the Contractor at no additional cost to the Owner. Should a failure occur to 25% of the painted surface, either interior or exterior, the entire surface shall be cleaned and painted in accordance with these specifications.

### **3.8 PRODUCT PERFORMANCE CRITERIA**

- A. Organic Zinc Rich Urethane Primer (Interior Primer)
  - 1. Generic Type: Organic Zinc Rich Urethane Primer
  - 2. Special Qualifications: Meets the health effects requirements of NSF/ANSI/CAN 600 according to the requirements of NSF/ANSI/CAN 61 for potable water tanks.
  - 3. Solids By Volume: 63%
  - 4. Zinc Content: 83% by weight.
  - 5. Salt Spray (Fog): ASTM B 117, Scribed Panels, 50,000 hours exposure.
  - 6. Adhesion: ASTM 4541 Elcometer Adhesion.
  - 7. Humidity: ASTM D 4585. 4,000 hours exposure.
  - 8. Cathodic Disbondment: ASTM G8, Method A. Days Exposure
  - 9. Immersion: ASTM D 870 Potable Water Immersion. 7 years immersion.
  - 10. Prohesion: ASTM G 85 Prohesion Cabinet. 15,000 hours exposure.
- B. NSF Approved Epoxy Intermediate and Finish Coat
  - 1. Generic Type: Phenalkamine Epoxy
  - 2. Special Qualifications: Certified by NSF International in accordance with NSF/ANSI/CAN Std. 61 and the extraction requirements of NSF/ANSI/CAN 600 and is qualified for use on interior potable water tanks
  - 3. Solids By Volume: 82%
  - 4. Cyclic Salt Fog/UV: ASTM D 5894, 9,744 hours exposure.
  - 5. Salt Spray (Fog): ASTM B 117, 10,000 hours exposure.
  - 6. Adhesion: ASTM 4541 Elcometer Adhesion
  - 7. Prohesion: ASTM G 85, 10,000 hours

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- 8. Humidity: ASTM D 4585. 2,000 hours exposure.
  - 9. Immersion: ASTM D 870 Potable Water Immersion. 2 years immersion.
  - 10. Immersion: ASTM D 870 140° DI Water Immersion. 2,000 hours.
  - 11. Dielectric Strength: ASTM D 149 – Average of 5 tests
- C. Exterior Finish Coat
- 1. Generic Type: Fluoropolymer Urethane
  - 2. Solids By Volume: 60%
  - 3. Salt Spray (Fog): ASTM B 117, Scribed Panels, 10,000 hours exposure.
  - 4. Adhesion: ASTM 4541 Elcometer Adhesion.
  - 5. Humidity: ASTM D 4585. 3,000 hours exposure.
  - 6. QUV: ASTM D 4587, 16,000 Hours (Report Gloss Retention)
  - 7. QUV: ASTM D 4587, 25,000 Hours (Report Color and Gloss Retention)
  - 8. EMMAQUA: ASTM D 4141, 1,500 Mj/M2 UV Exposure
  - 9. EMMAQUA: ASTM D 4141, 2,000 Mj/M2 UV Exposure
  - 10. EMMAQUA: ASTM D 4141, 5,000 Mj.M2 UV Exposure
  - 11. AAMA 2605: 10 Years South Florida Exposure (Report Color and Gloss Retention, Chalking and Erosion)
  - 12. Abrasion: ASTM D 40060 (CS-17 wheel, 1,000 gram load, 1,000 cycles)

**3.9 DISINFECTION**

Contractor shall disinfect the tank by one of the methods accepted by the Alabama Department of Environmental Management.

**3.10 PAYMENT**

Payment for cleaning and coating the tanks interior and exterior shall be made on the basis of Lump Sum and Unit Price Bids. Such compensation shall be compensation in full for furnishing all labor, materials, tools and equipment; for all cleaning and coating of the tanks; lettering; needed repair work on the tank; protection of neighboring structures; for all surface preparation and painting; for all miscellaneous and incidental work for removal and disposal of blasting debris; and for supervision, overhead and profit. A separate item is listed in the Proposal Form to provide draping around the tank while coating procedures are being performed. A separate item is listed for materials used for Lead Abatement; any tack yields, that may be required and replacement of the Vent Screen.





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