

## Invitation For Sealed Bids



**ISSUE DATE:** February 11, 2016  
**CONTACT:** Caryl Ann Giles  
**PHONE NUMBER:** (931) 489-5791  
**EMAIL:** cgiles@springhilltn.org

SUBMIT PROPOSAL/OFFER PRIOR TO:  
**CLOSING DATE:** Wednesday March 2, 2016  
**CLOSING TIME:** 1:00 P.M. (Local Time)

SUBMIT TO:  
**See Section 4.0**  
 VERBAL/FAX/EMAIL NOT ACCEPTED

### DESCRIPTION:

**Work involves preparing surfaces, painting interior, exterior and logo, and protecting surroundings of the City's 1.0 MG ground level storage tank located at 199 Town Center Parkway, Spring Hill, TN 37174**

### ☐ RECEIPT OF PROPOSAL ACKNOWLEDGEMENT

If you are considering a response to this RFP, please mark the box to the left, fill in the information below and return this sheet as a confirmation that you received this RFP .

### ☐ NO RESPONSE REPLY

If you do not want to respond to this RFP at this time, please mark the box to the left, fill in the information below and return this sheet only.

COMPANY NAME:

DATE:

MAILING ADDRESS:

CITY/STATE

ZIP CODE

AUTHORIZED SIGNATURE:

PRINTED NAME:

TITLE OF AUTHORIZED REPRESENTATIVE:

EMAIL:

PHONE:



## ***WATER DEPARTMENT***

### **REQUEST FOR PROPOSAL**

### **INTERIOR & EXTERIOR BLASTING AND PAINTING OF:**

#### **CITY HALL TANK**

1.0 million gallon welded steel ground level tank  
Overflow: 848.0 Top of Ring-wall: 801.0 Inside Diameter: 60'-0" Height: 48'-0"

# RFP ORGANIZATION

## *INTERIOR & EXTERIOR BLASTING AND PAINTING OF CITY HALL TANK*

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## **1.0 INTRODUCTION**

- a) Sealed bids, subject to the attached specifications and conditions, will be received by the City Recorder of the City of Spring Hill until **1:00 p.m., Central Standard Time on Wednesday March 2, 2016**, at which time they will be publicly opened and read. Bids may be hand delivered or sent by UPS or FedEx to the City of Spring Hill, 199 Town Center Parkway, Spring Hill, TN 37174. Bids may be sent by United States Postal Service to the City of Spring Hill. P.O. Box 789, Spring Hill, Tennessee, 37174.
- b) Bids are to be submitted in a sealed envelope with the bidder's name, address, registered Tennessee contractor number, expiration date of licenses, date of bid opening, and designation "Water Tank Painting, City Hall Tank" on the outside.
- c) Complete plans, specifications and bid documents for this work are included.
- d) The City reserves the right to reject any and all bids and waive any informality in the bids received.
- e) All bidders must be licensed Contractors in the State of Tennessee in strict accordance with State regulations. No bid will be opened unless the outside of the sealed envelope containing the bid provides the following information: name, licenses number, date licenses expires.
- f) Bidders are expected to visit the site of the proposed work and to satisfy themselves as to the accessibility, storage space and general conditions. A site visit can be arranged by contacting Caryl Giles, Water Plant Superintendent, at (931) 48-5791, [cgiles@springhilltn.org](mailto:cgiles@springhilltn.org). Bidders must be responsible parties, regularly and practically engaged in this class of work and known to possess ample facilities for doing the work.
- g) The Contractor shall be required to indemnify the City of Spring Hill from all claims, damages, accidents and liabilities which may arise out of or during work under this contract by anyone directly or indirectly employed on the work. The Contractor shall carry insurance as prescribed herein and all policies shall be with companies satisfactory to the City. Coverage specified herein constitutes the minimum requirement and said requirement shall in no way lessen or limit the liability of the Contractor. The Contractor shall procure and maintain at his own expense any additional kinds and amounts of insurance that, in his judgment, may be necessary for proper protection in the prosecution of the work. If a part of the work is sublet, the Contractor shall require each subcontractor to carry insurance of the same kinds and in like amounts as carried by the prime Contractor.
  - a. A Certificate of Insurance shall be submitted and approved before starting any work. The Certificate shall state that a minimum 15 day written notice will be given to the City of Spring Hill before the policy is canceled or changed.
  - b. Insurance shall include Worker's Compensation as required by the State of Tennessee; Comprehensive General Liability (Bodily Injury and Property Damage) and Automobile Liability Insurance. See Appendix A.
- h) Bids must be accompanied by a bid bond, certified check, or the equivalent in the sum of five (5%) percent of the bid. This deposit shall be retained if the successful bidder fails to execute the contract within ten (10) days after the award or fails to give satisfactory surety as required herein. A performance bond will be required in an amount equal to one hundred (100%)

percent of the contract price conditioned upon faithful performance of the contract and upon payment of all persons supplying labor and furnishing materials for the project. The performance bond shall be executed by a surety company authorized to do business in the state of Tennessee.

- i) The successful bidder shall enter into a written contract within ten (10) days of acceptance of bid. Said contractor shall embody all of the terms, conditions, and provisions of the Invitation for Bids, and Specifications.
- j) All work shall be completed within sixty (60) consecutive calendar days after award of the contract. Within the sixty (60) days specified, work shall be scheduled such that City Hall Tank is not out of service for more than sixty **(60) calendar days**.
- k) All materials and work done shall be subject to the inspection, test and approval of the Water Plant Superintendent of the City of Spring Hill, Tennessee, or the duly authorized representatives, and payment for materials furnished or work done shall be withheld until such approval is obtained.
- l) Payment to the Contractor shall be made in one total project payment within fifteen (15) days after approved completion of all work and receipt of an approved complete invoice.
- m) The Contractor shall warranty all work. Warranty shall also cover the logo.
- n) During the performance of this Contract, the Contractor:
  - (a) Will not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin, except where religion, sex or national origin is a bona fide occupational qualification reasonably necessary to the normal operation of the Contractor, and agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause; and
  - (b) Will state that such Contractor is an equal opportunity employer in all solicitations or advertisements for employees placed by the Contractor; and
  - (c) Agrees that notices, advertisements and solicitations placed in accordance with Federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
  - (d) The Contractor will include these nondiscrimination provisions in every subcontract or purchase order of over \$10,000.00 so that the provisions will be binding upon each subcontractor or vendor.
  - (e) The City of Spring Hill, Tennessee has adopted a drug and alcohol testing program for its employees. The City requires all bidders submit an affidavit. See Appendix D
  - (f) The contractor shall not knowingly utilize the services of an illegal immigrant in the performance of this agreement and shall not knowingly utilize the services of any subcontractor who will utilize the services of an illegal immigrant in the performance of this agreement.

### **City Hall Tank**

199 Town Center Parkway

- 1.0 million gallon welded steel ground level,
- Center Column and Rafters supporting roof
  - Constructed in 1984
  - 60' Diameter 48' height
- Top 1 – 24" Access 1 – 24" Removable Vent (Access)
  - Ground 2 – 24" Access Man Ways



CITY HALL TANK

## **2.0 Project Description**

### **Scope**

- a) The work of this section includes the preparation and coating of all exterior surfaces and all interior wet and dry surfaces of the City Hall Water Storage Tank, City of Spring Hill, Spring Hill, Tennessee.
- b) Without limiting the general aspects of other requirements of these specifications, all surface preparation, coating and painting of interior and exterior surfaces shall conform to the applicable requirements of the Steel Structures Painting Council, NACE International and the manufacturer's printed instructions. The most stringent method shall be applicable if any conflict should arise.
- c) The Owner's decision shall be final as the interpretation and/or conflict between any of the referenced specifications and standards contained herein.

### **Codes and Standards**

- |  |  |
|--|--|
| a) AWWA D102 (2011)                                    | Coating Steel Water-Storage Tanks        |
| b) AWWA C652 (2011)                                    | Disinfection of Water-Storage Facilities |
| c) ANSI/NSF Standard 61                                | Drinking Water System Components         |
| d) SSPC-SP 1-82 (Editorial Revisions November 1, 2004) | Solvent Cleaning                         |
| e) SSPC-SP 6/NACE No. 3 (2007)                         | Commercial Blast Cleaning                |
| f) SSPC-SP 10/NACE No. 2 (2007)                        | Near White Blast Cleaning                |

### **Contractor**

- a) The contractor shall have **ten (10) years practical experience** and successful history in the application of specified products to steel surfaces of elevated potable water storage vessels. They shall substantiate this requirement by furnishing a list of **10 references and job completions**.
- b) The Contractor shall possess the applicable license to perform the work as herein described and as specified by the State of Tennessee. The Contractor's license number and expiration date shall appear in the lower left-hand corner of the envelope containing the bids.

### **Quality Assurance**

- a) General: Quality assurance procedures and practices shall be utilized to monitor all phases of surface preparation, application, and inspection throughout the duration of the project. Procedures or practices not specifically defined herein may be utilized provided they meet recognized and accepted professional standards and are approved by the Owner.
- b) Surface Preparation: Surface preparation will be based upon comparison with: "Pictorial Surface Preparation Standards for Painting Steel Surfaces", SSPC-Vis-1 and ASTM Designation D2200; "Standard Methods of Evaluating Degree of Rusting on Painted Steel Surfaces".
- c) Application: No coating or paint shall be applied: When the surrounding air temperature or the temperature of the surface to be coated is below the minimum required temperature for the specified product; to wet or damp surfaces or in rain, snow, fog or mist; when the temperature is less than 5 degrees F. above the dew point; when the air temperature is expected to drop below 40 degrees F. within six hours after application of coating. Dew point shall be

measured by use of an instrument such as a Sling Psychrometer in conjunction with U.S. Department of Commerce Weather Bureau Psychrometric Tables.

- d) If above conditions are prevalent, coating or painting shall be delayed or postponed until conditions are favorable. The day's coating or painting shall be completed in time to permit the film sufficient drying time prior to damage by atmospheric conditions.
- e) Thickness Testing: Thickness of coatings and paint shall be checked with a non-destructive, magnetic –Type 1 or Type 2 Dry Film Thickness Gauge according to SSPC-PA2.
- f) Low Voltage Holiday Detection: The integrity of coated interior surfaces shall be tested with an approved inspection device. Non-destructive holiday detectors, for the steel elevated tank, shall not exceed 67½ volts nor shall destructive holiday detectors exceed the voltage recommended by the manufacturer of the coating system. For thickness between 10 and 20 mils (250 microns and 500 microns) a non-sudsing type wetting agent, such as Kodak Photo Flo, shall be added to the water prior to wetting the detector sponge. All pinholes shall be marked, repaired in accordance with the manufacturer's printed recommendation and retested. No pinholes or other irregularities will be permitted in the final coating.
- g) All coatings utilized shall be certified "non-lead" as defined in Part 1303 of the consumer product Safety Act B. All interior and exterior paint colors shall be certified to be lead free.

### **Safety and Health Requirements**

- a) General: In accordance with requirements set forth by regulatory agencies applicable to the construction industry and manufacturer's printed instructions and appropriate technical bulletins and manuals, the Contractor shall provide and require use of personnel protective lifesaving equipment for persons working on or about the project site.
- b) Head and Face Protection and Respiratory Devices: Equipment shall include **protective helmets shall be worn by all persons while in the vicinity of the work.** In addition, workers engaged in or near the work shall wear eye and face protection devices.
- c) All rigging, scaffolding and climbing gear etc. provided shall be OSHA approved and up to the most recent code prior to use on the job site.
- d) Ventilation Plan  
Fresh air hoods shall be worn during blasting and painting of the interior surfaces. Provide temporary forced ventilation during blasting, application, and drying periods of inside paint. Never work in an atmosphere where the explosive gases are 10% or more of the L.E.L. (lower explosive limit) or where oxygen is below 19% nor greater than 22%. Periodic monitoring of these conditions shall be made using calibrated equipment.

### **Products**

- a) This specification lists specific products manufactured by Tnemec Company, Inc. of Kansas City, Missouri, Local Contact: Williams Coating Consultants, Inc. 615-333-1000. Materials specified herein are cited as minimum standard of quality which will be acceptable with an approved equal.
- b) Materials specified herein shall not preclude consideration of equivalent materials. Equivalent materials shall be submitted to Engineer for consideration after bids have been received and contract awarded. Submitted bid shall contain TNEMEC coating system as specified herein or an approved equal.

Requests for substitution shall include evidence of satisfactory past performance on water tanks.

1. Substitutions will not be considered that change number of coats or do not meet specified total dry film thickness.
2. Contractor shall state in the substitution request the amount of deduct or additive to use equivalent materials to those specified.



3. Substitute materials must be for complete systems and not individual products combined with the specified materials and the performance criteria for all products within a system must meet or exceed the specified materials.
5. Only one alternate submittal will be received from the contractor awarded the project and should be accompanied by a detailed statement of the sum of deduct or add from/to the base bid should alternate materials be accepted.
6. Manufacturer's Instructions:
  - a. Submit manufacturer's installation procedures, if not on product data sheets, which shall be basis for accepting or rejecting actual installation procedures.
7. Paints for interior wet applications must be listed by NSF International as certified for potable water contact in accordance with ANSI/NSF Std. 61, Section 5, Protective (Barrier) Materials.

Any material savings shall be passed to the owner in the form of a contract dollar reduction.

All materials shall be brought to the jobsite in original, sealed containers. Materials exceeding storage life recommended by the manufacturer shall not be used.

All coatings and paints shall be stored in enclosed structures to protect them from weather and excessive heat or cold. Flammable coatings or paint must be stored to conform to City, County, State and Federal safety codes for flammable coating or paint materials. At all times, coating and paints shall be protected from freezing.

Interior coatings shall meet ANSI/NSF Std. 61.

### **Surface Preparation**

- a) The latest revision of the following surface preparation specifications of the Steel Structures Painting Council shall form a part of this specification:
- b) SSPC-SP1 Solvent Cleaning: Remove oil, dirt, grease and foreign matter with solvents or commercial cleaners using various methods of cleaning such as wiping, dipping, steam cleaning or vapor degreasing. The removal of oil and grease by solvent cleaning is included in all other SSPC Surface Preparation Specifications. Including these listed below.
- c) SSPC-SP2 Hand Tool Cleaning.
- d) SSPC-SP3 Power Tool Cleaning.
- e) SSPC-SP6 Commercial Blast Cleaning.
- f) SSPC- SP10 Near White Blast Cleaning
- g) The Contractor shall keep the area of his work and the surrounding environment in a clean condition. He shall not allow work performed to be a nuisance or hazard to the accomplishment of the work, or the operation of the existing facilities.
- h) After completion of surface preparation as specified for the specific system, materials shall be applied in accordance with manufacturer's recommendations.

### **Containment:**

- a) The contractor shall be responsible to make provisions to contain the residue and/or old paint to with the tank property. The contractor shall be responsible for the disposal of the debris generated and shall be responsible for all costs involved in the disposal of the debris on behalf of the Owner.
- b) All debris generated from the power washing, power tool cleaning or abrasive blast cleaning of the exterior or interior of the tank shall be disposed of in the proper manner by the Contractor. Application for the necessary approvals and permits shall be made by the Contractor and coordinated with the Owner.

## **Pre-Installation Meeting**

- a) Schedule a meeting to be held on-site before field application of coating systems begins.
- b) Meeting shall be attended by the contractor, owner's representative, coating applicator and manufacturer's representative.
- c) Topics of discussion
  - a. Review contract documents and settle any deviations or differences
  - b. Review environmental conditions, surface conditions, surface preparation, application procedures and protection following the application.
  - c. Establish which areas on-site will be available for use as storage areas and working area.

## **Coating Systems:**

### **Colors: As directed by the Owner.**

**Field Surface Preparation:** Remove all oil, grease, soil, dirt and other soluble contaminants in accordance with SSPC-SP1. Weld slag, weld spatter, rough edges and sharp edges of weld seams shall be ground smooth. All rusted, abraded and unpainted areas shall be abrasive blast cleaned to a Commercial Finish in accordance with the recommended methods outlined in The Society for Protective Coatings Specification SSPC-SP6 (NACE No. 3). A surface profile of 1.5 to 2.5 mils.

**Field Spot Prime Coat:** Immediately after blasting and before any rusting occurs, apply one coat of Tnemec Series 91/94-H20 Hydro-Zinc primer to all bare steel surfaces. The coating shall be applied at a dry film thickness of 2.5 to 3.5 mils.

**Field Intermediate Coat:** Apply one complete coat of Tnemec Series 73-Color Endura-Shield at a dry film thickness of 2.0 to 3.0 mils. To achieve complete finish coat coverage, the intermediate coat color should be noticeably different than the specified finish coat color. When feasible, the field intermediate coat should be in the same finish coat color family (blue, beige, gray, etc.) with a difference in light reflectance value of about 10%.

**Field Finish Coat:** Apply one complete coat of Tnemec Series 700-Color HydroFlon at a dry film thickness of 2.0 to 3.0 mils. Certain colors may require two coats depending upon the method of application and color of the intermediate coat. Color shall be selected by the Owner. Tank White

See attached Tnemec Product Data Sheets for information and instruction on mixing, thinning, environment, application and dry times. Particular attention is called to the Product Data Sheet thinning restrictions necessary to meet ANSI/NSF Standard 61 requirements (for the interior wet system). Suggested wet film thickness shown above is based on un-thinned paint.

For non-immersion stainless steel, aluminum, and galvanized surfaces, no additional surface preparation or coating is required. For stainless steel, aluminum and galvanized surfaces in immersion, surface preparation shall be in accordance with paint manufacturer recommendations, and the interior wet coating system shall be applied.

## **Interior Wet Coating System**

Field Surface Preparation: Remove all visible oil, grease, soil, dirt and other soluble contaminants in accordance with SSPC-SP1. Weld slag, weld spatter, rough edges and sharp edges of weld seams shall be ground smooth. All rusted, abraded and unpainted areas shall be abrasive blast cleaned to a Near White Finish in accordance with the recommended methods outlined in The Society for Protective Coatings Specification SSPC-SP10 (NACE No. 2). A surface profile of 1.5 to 2.5 mils is required.

Field Spot Prime Coat: Immediately after abrasive blasting and before any rusting occurs, apply one coat of Tnemec Series 91/ 94-H2O Hydro-Zinc primer to all bare steel surfaces. The coating shall be applied at a dry film thickness of 2.5 to 3.5 mils.

Field Stripe Coat: Apply TNEMEC Series 20/FC20-39BL Pota-Pox Delft Blue to all weld seams by brush or roller.

Field Finish Coat: Apply one complete coat of Tnemec Series 141-39BL Delft Blue EPOXOLINE applied at a dry film thickness of 12.0 to 15.0 mils

## **Logo**

A name/sign logo is required on one side.

Field Finish Coat: Apply one complete coat of Tnemec Series 700-Color HydroFlon at a dry film thickness of 2.0 to 3.0 mils. Certain colors may require two coats depending upon the method of application and color of the intermediate coat. Color selected by the Engineer/Owner. See Logo Layout Sheet 1 & 2..

Cadet Blue – 14BL  
Candy Apple Red – 06SF

\*Caulk all inaccessible areas using an NSF approved sealant.

MIXING Instructions: Specific product mixing and thinning instructions are to be found in the manufacturer's printed data sheets.

## **Paint Areas**

Interior Wet 14,540 square feet, Exterior 11,710 square feet

All paint area square footage numbers shown are approximate.

**Thinning requirements** for specified products are to be found in the paint manufacturer's printed data sheets and are to be strictly adhered to.

## **Clean Up**

- a) Upon completion of the work, all staging, scaffolding, and containers shall be removed from the site or destroyed in a manner approved by the Owner. Coating or paint spots and oil or stains upon adjacent surfaces shall be removed and the jobsite cleaned. All damage to surfaces resulting from the work of this section shall be cleaned, repaired, or refinished to the satisfaction of the Owner at no cost to the Owner.

## **Protection:**

- b) Take precautionary measures to prevent fire hazards and spontaneous combustion. Remove empty containers from site at completion of each day's work.
- a) Provide drop cloths, shields, and other protective equipment.
- b) Protect elements surrounding work from damage or disfiguration.

- c) As Work proceeds, promptly remove spilled, splashed, or splattered materials from surfaces. Leave storage area neat and clean at all times.

**Warranty**

- a) The Contractor will warrant the work free of defects in material and workmanship for a period of two (2) years from the acceptance of the work. At the end of one year, the Contractor will return for a one-year anniversary inspection of the work. The Contractor will correct any deficiencies found with no cost to the owner. At the end of the second year, the Contractor will return for another anniversary inspection of the work. The Contractor will correct any deficiencies found with no cost to the Owner.

**Disinfection**

- a) Contractor to coordinate disinfection activities and schedule with the owner.
- b) Chlorination Method 3 per AWWA C652-02, Section 4.3
- c) The tank is to be disinfected after field painting but prior to turning water into the system.
- d) The chlorine will be in the form of sodium hypochlorite with 10% available chlorine. An amount of 20.0 gallons will be placed into the tank as water is entered into the tank.
- e) After the chlorine is dumped in the fill line, allow the water to enter into the tank to a depth of 2.4 feet. This can be monitored via SCADA from the Water Treatment Plant.
- f) Standard 4C05. This depth represents 5% of the volume of the tank. This depth should contain a solution of chlorinated water of 50 ppm.
- g) This level shall be held from 6 to 24 hours. After the holding period has passed, the tank shall be filled to the overflow level and held for an additional 24 hours.
- h) At this point, samples shall be taken by the Owner for bacterial analysis according to local regulations.

## Appendix A

### INSURANCE REQUIREMENTS FOR PROFESSIONAL SERVICES TO THE CITY OF SPRING HILL

1. The qualified tank inspection company shall provide proof of insurance coverage under a general liability insurance policy and an automotive liability insurance policy, both of which will be of the comprehensive form.
2. All Certificates of Insurance required hereunder shall provide a thirty (30) day notice of cancellation to the City of Spring Hill.
3. The insurance shall protect the insured from claims for damages because of bodily injury (including accidental death) and from claims for property damage (including loss of use resulting there from). This insurance shall include the specific coverage and be written for not less than the limits set out below.

#### Workers Compensation

1. As required by the State of Tennessee

#### General Liability

- |   |             |
|---|-------------|
| 1. Bodily injury or death – each occurrence | \$1,000,000 |
| 2. Bodily injury or death – aggregate       | 1,000,000   |
| 3. Property damage – each occurrence        | 500,000     |
| 4. Property damage – aggregate              | 500,000     |
| 5. Personal injury – aggregate              | 500,000     |

#### Automotive Liability:

- |   |             |
|---|-------------|
| 1. Bodily Injury or death – each person     | \$1,000,000 |
| 2. Bodily injury or death – each occurrence | 1,000,000   |
| 3. Property damage – each occurrence        | 500,000     |
4. This insurance shall provide adequate protection against any or all damage claims that may arise out of or result from operations under the project description whether such operations be by the insured or anyone directly or indirectly employed by him, and also against any special hazards.

**THIS DRAWING IS FOR REFERENCE ONLY.**



**NOTES:**

1. CONTRACTOR SHALL COORDINATE WITH THE CITY OF SPRING HILL FOR THE VERTICAL PLACEMENT AND THE LOGO(S) PLACEMENT AROUND THE CIRCUMFERENCE OF THE TANK.
2. REFER TO THE LOGO LAYOUT SHEET 2 FOR DIMENSIONS.
3. CONTRACTOR SHALL COORDINATE THE COLOR SELECTION WITH THE CITY OF SPRING HILL.

**CLIENT:** CITY OF SPRING HILL, TENNESSEE

**PROJECT NAME:** CITY HALL TANK REHAB

**PROJECT NO.:** 0100-000 WATER ADMIN **DATE:** 02/05/2016 **SHEET** 1 **OF** 1



**DEMPSEY, DILLING & ASSOCIATES, P.C.**

Engineering Consultants

[www.dempseydilling.com](http://www.dempseydilling.com)

602 Hazelwood Drive  
Shelby, Tennessee 37167  
ph. (615) 228-5800  
[www.dempseydilling.com](http://www.dempseydilling.com)

**LOGO LAYOUT  
SHEET 1**





**Section 4**

***PROJECT: INTERIOR & EXTERIOR BLASTING  
AND PAINTING OF CITY HALL TANK***

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**Bid Form**

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Attention: April Goad, City Recorder

The undersigned bidder declares that they have examined the invitation for Bids, Plans and Specifications, and has informed there self fully in regard to all the terms and conditions pertained thereto, and has satisfied there self relative to the work to be performed.

The Bidder proposes and agrees if their bid is accepted, within ten (10) days to enter into a contract to:

**Furnish all materials, equipment, labor and supervision to prepare surfaces and paint interior and exterior of the 1.0 MG City of Spring Hill, Tennessee City Hall Tank, within sixty (60) calendar days from the Award of Contract in accordance with the invitation for Bids, Plans, Specifications at the following price.**

Base Bid: \$\_\_\_\_\_ using Tnemec paint, and as specified.

Alternate Bid: \$\_\_\_\_\_ using \_\_\_\_\_ paint as specified

RESPECTFULLY SUBMITTED,

\_\_\_\_\_  
CONTRACTOR (signed)

BY \_\_\_\_\_

\_\_\_\_\_  
ADDRESS

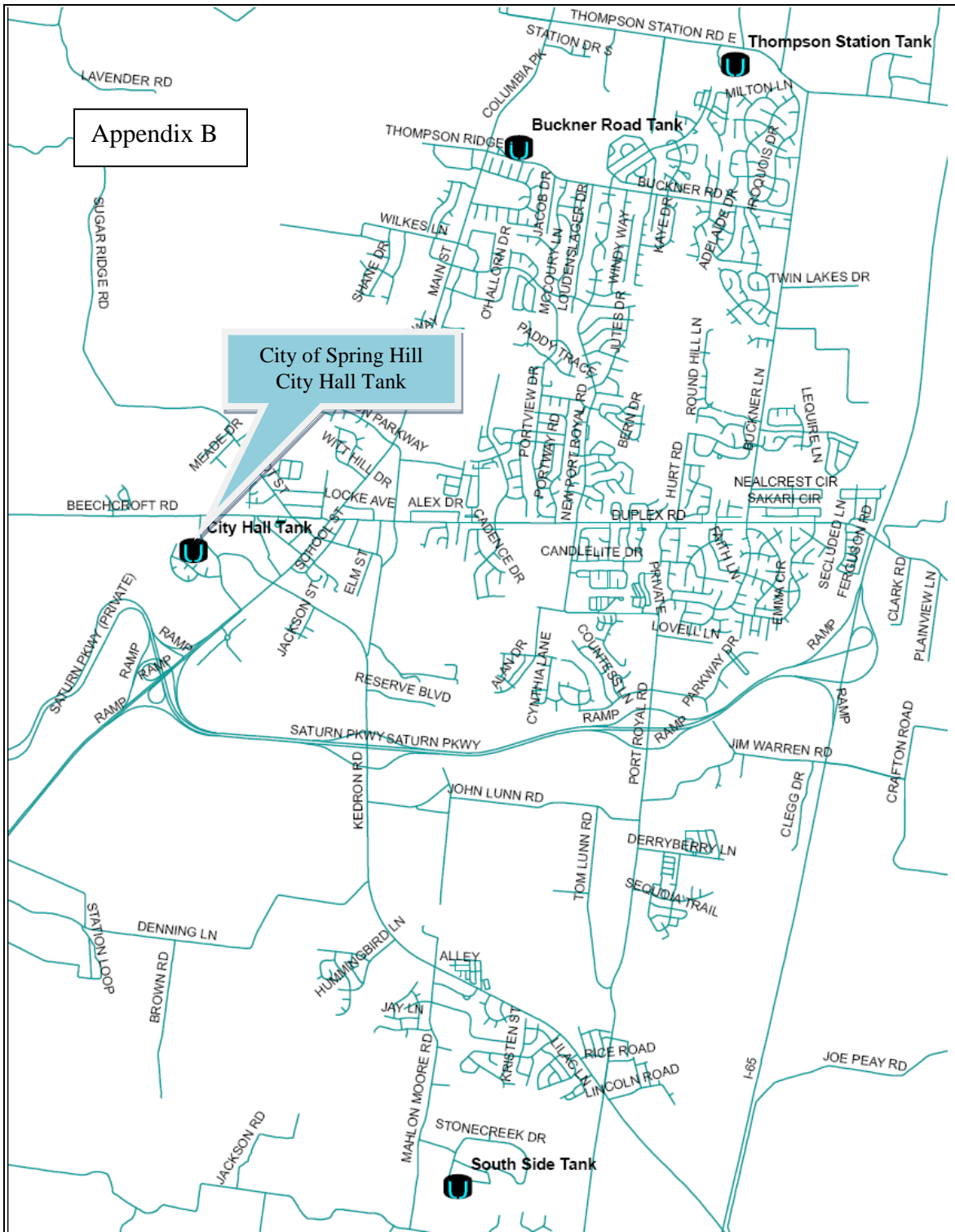
\_\_\_\_\_  
TELEPHONE NUMBER


DATE: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

CONTRACTOR'S CURRENT TENNESSEE LICENSE NUMBER: \_\_\_\_\_





Summary of Bids	
	<b>ISSUE DATE:</b> February 11, 2016 <b>CONTACT:</b> Caryl Ann Giles <b>PHONE NUMBER:</b> (931) 489-5791 <b>EMAIL:</b> cgiles@springhilltn.org
SUBMIT PROPOSAL/OFFER PRIOR TO: <b>CLOSING DATE:</b> Wednesday March 2, 2016 <b>CLOSING TIME:</b> 1:00 P.M. (Local Time)	SUBMIT TO: <b>See Section 4.0</b> VERBAL/FAX/EMAIL NOT ACCEPTED
<b>DESCRIPTION:</b>  <b>Work involves preparing surfaces, painting interior, exterior and logo and protecting surroundings of the City's 1.0 MG ground level storage tank located at 199 Town Center Parkway, Spring Hill, TN 37174</b>	

Company	Proposal Amount:

PRODUCT DATA SHEET

POTA-POX® SERIES 20

PRODUCT PROFILE

GENERIC DESCRIPTION	Polyamide Epoxy
COMMON USAGE	Industry standard for potable water epoxy coatings for nearly 30 years. Known for its forgiving application characteristics in adverse and varied conditions, and for its benchmark performance.
COLORS	1211 Red, 1255 Beige, 11WH White, 15BL Tank White, 39BL Delft Blue. Note: Epoxies chalk with extended exposure to sunlight. Lack of ventilation, incomplete mixing, miscatalyzation or the use of heaters that emit carbon dioxide and carbon monoxide during application and initial stages of curing may cause yellowing to occur.
SPECIAL QUALIFICATIONS	Certified by NSF International in accordance with ANSI/NSF Std. 61. Ambient air cured Series 20 is qualified for use on the interior of potable water storage tanks and reservoirs of 5,000 gallons (18,927 L) capacity or greater. Conforms to AWWA D 102 Inside Systems No. 1 and 2. Contact your Themec representative for approved systems and additional information on potential uses.
PERFORMANCE CRITERIA	Extensive test data available. Contact your Themec representative for specific test results.

COATING SYSTEM

PRIMERS	Self-priming, 1, FC20, N140, N140F, 91-H <sub>2</sub> O, 94-H <sub>2</sub> O. Note: 91-H <sub>2</sub> O is ANSI/NSF Std. 61 certified by UL as a primer for Series 20. Refer to the 91-H <sub>2</sub> O product data sheet for additional information.
TOPCOATS	Interior: Series 20, FC20, N140, N140F, 264, 265 Exterior: Series 20, FC20, 66, N69, N69F, 73, N140, N140F, 161, 700, 701, 1074, 1075. Note: When topcoating with Series 700 or 701, an intermediate coat of Series 73 or 1075 is required. Refer to COLORS on applicable topcoat data sheets for additional information.

SURFACE PREPARATION

STEEL	<b>Immersion Service:</b> SSPC-SP10/NACE 2 Near-White Blast Cleaning with a minimum angular anchor profile of 1.5 mils. <b>Non-Immersion Service:</b> SSPC-SP6/NACE 3 Commercial Blast Cleaning with a minimum angular anchor profile of 1.5 mils.
CAST/DUCTILE IRON	Contact your Themec representative or Themec Technical Services.
CONCRETE	Allow new concrete to cure for 28 days. Abrasive blast referencing SSPC-SP13/NACE 6, ICRI CSP 2-3 Surface Preparation of Concrete and Themec's Surface Preparation and Application Guide. Holes, pits, voids and cracks should be filled with 63-1500 Filler and Surface.
PRIMED SURFACES	<b>Immersion Service:</b> Scarify the Series 20 or FC20 prime coat by brush-blasting with fine abrasive before topcoating if it has been exterior exposed for 60 days or longer.
ALL SURFACES	Must be clean, dry and free of oil, grease, chalk and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS	57.0 ± 2.0% (mixed) †			
RECOMMENDED DFT	2.0 to 6.0 mils (50 to 150 microns) per coat. Note: Number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Themec representative.			
CURING TIME	Temperature	To Handle	To Recoat	Immersion
	75°F (24°C)	10 hours	12 hours	7 days

Curing time varies with surface temperature, air movement, humidity and film thickness.  
Ventilation: When used in enclosed areas, provide adequate ventilation during application and cure.

VOLATILE ORGANIC COMPOUNDS	Unthinned: 3.02 lbs/gallon (362 grams/litre) Thinned 10%: 3.37 lbs/gallon (404 grams/litre) †	
HAPS	Unthinned: 4.18 lbs/gal solids Thinned 10%: 5.16 lbs/gal solids	
THEORETICAL COVERAGE	898 ml sq ft/gal (22.0 m <sup>2</sup> /L at 25 microns). See APPLICATION for coverage rates. †	
NUMBER OF COMPONENTS	Two: Part A and Part B	
PACKAGING	5 gallon (18.9L) pails and 1 gallon (3.79L) cans — Order in multiples of 2.	
NET WEIGHT PER GALLON	12.50 ± 0.25 lbs (5.7 ± .11 kg) (mixed) †	
STORAGE TEMPERATURE	Minimum 20°F (-7°C) Maximum 110°F (43°C)	
TEMPERATURE RESISTANCE	(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)	
SHELF LIFE	Part A: 24 months at recommended storage temperature. Part B: 12 months at recommended storage temperature.	
FLASH POINT - SETA	Part A: 82°F (28°C) Part B: 64°F (18°C)	
HEALTH & SAFETY	Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. Keep out of the reach of children.	



# EPOXOLINE® SERIES 141

## PRODUCT DATA SHEET

### PRODUCT PROFILE

GENERIC DESCRIPTION	Modified Polyamine Epoxy
COMMON USAGE	High solids coating which offers high-build edge protection and excellent corrosion resistance. For use on the interior and exterior of steel or concrete tanks, reservoirs, pipes, valves, pumps, and equipment, as well as other steel and concrete substrates.
COLORS	Available in the following standard industrial colors: 1211 Red, 1253 Gray, 1255 Beige, 1256 Blue and 35GR Black. <b>Note:</b> Epoxies chalk with extended exposure to sunlight. Lack of ventilation, incomplete mixing, miscatalyzation or the use of heaters that emit carbon dioxide and carbon monoxide during application and initial stages of curing may cause yellowing to occur. <b>Important:</b> Due to the product's curing agent chemistry, color variations can be pronounced. However, these changes in color are aesthetic only and will not affect performance or certifications. Contact your Tnemec representative for more information.
SPECIAL QUALIFICATIONS	Certified by NSF International in accordance with NSF/ANSI Std. 61. Seven day ambient air cured Series 141 is qualified for use on tanks and reservoirs of 500 gallons (1893 L) capacity and greater, pipes 22 inches (56 cm) in diameter and greater, fittings 1 inch (2.54 cm) in diameter and greater, valves 4 inches (10 cm) in diameter and greater, and pumps 4 inches (10 cm) in diameter and greater. When cured for 30 days at ambient air temperature, Series 141 is qualified for use on pipes 10 inches (25.4 cm) in diameter and greater, fittings 3/4 inch (1.9 cm) in diameter and greater, valves 2 1/2 inches (6.35 cm) in diameter and greater, and pumps 4 inches (10 cm) in diameter and greater. Reference the "Search Listings" section of the NSF website at <a href="http://www.nsf.org">www.nsf.org</a> for details on the maximum allowable DFT, certified colors, and primer and topcoat compatibility for use in potable water.
PERFORMANCE CRITERIA	Extensive test data available. Contact your Tnemec representative for specific test results.

### COATING SYSTEM

PRIMERS	<b>Steel:</b> Self-priming, 1, 20, FC20, 27, Z7WB, 37H, L69, L69F, N69, N69F, V69, V69F, 90E-92, 90G-1K97, 90-97, H90-97, 90G-98, 91-H2O, H91-H2O, 94-H2O, 135, L140, L140F, N140, N140F, V140, V140F, 394, 530 <b>Concrete:</b> Self-priming, 20, FC20, 27, Z7WB, L69, L69F, N69, N69F, V69, V69F, L140, L140F, N140, N140F, V140, V140F, 215, 217, 218 <b>CMU:</b> Self-priming or Series 130, 215, 218, 1254
TOPCOATS	<b>Exterior:</b> Series 73, 180, 1028, 1029, 1074, 1074U, 1075, 1075U. <b>Note:</b> The following maximum recoat time applies when using Series 73, 180, 1074, 1074U, 1075, or 1075U: fourteen (14) days. If this time limit is exceeded, Series 141 must be uniformly scarified prior to topcoating.

### SURFACE PREPARATION

PRIMED STEEL	<b>Immersion Service:</b> Scarify the Series 20, FC20, L69, L69F, N69, N69F, V69, V69F, L140, L140F, N140, N140F, V140 or V140F prime coat surface by brush-blasting with fine abrasive before topcoating if it has been exteriorly exposed for 30 days or longer and 141 is the specified topcoat.
STEEL	<b>Immersion Service:</b> SSPC-SP10/NACE 2 Near-White Blast Cleaning with a minimum angular anchor profile of 2.0 mils <b>Non-Immersion Service:</b> SSPC-SP6/NACE 3 Commercial Blast Cleaning with a minimum angular anchor profile of 2.0 mils. <b>Note:</b> Abrasive blast cleaning generally produces the best coating performance. If conditions will not permit this, Series 141 may be applied to SSPC-SP2 or SP3 Hand or Power Tool Cleaned surfaces.
CONCRETE	Allow new cast-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Verify concrete dryness in accordance with ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (moisture vapor transmission should not exceed three pounds per 1,000 square feet in a 24 hour period), F 2170 "Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes" (relative humidity should not exceed 80%), or D 4263 "Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method" (no moisture present). Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardness, sealers and other contaminants and to provide a minimum ICRI-CSP 3 surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.
ALL SURFACES	Must be clean, dry and free of oil, grease, chalk and other contaminants.

### TECHNICAL DATA

VOLUME SOLIDS	82% ± 2.0% (mixed) †																																			
RECOMMENDED DFT	4.0 to 18.0 mils (100 to 455 microns) in a one coat application. <b>Note:</b> Thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative. Maximum dry film thickness for NSF exposure is 18.0 mils.																																			
CURING TIME AT 5 MILS DFT	<table><tr><th>Temperature</th><th>To Handle</th><th>To Topcoat</th><th>Immersion</th></tr><tr><td>90°F (32°C)</td><td>3 hours</td><td>4 hours ‡</td><td>7 days</td></tr><tr><td>75°F (24°C)</td><td>4 hours</td><td>5 hours ‡</td><td>7 days</td></tr><tr><td>65°F (18°C)</td><td>7 hours</td><td>9 hours ‡</td><td>8 days</td></tr><tr><td>55°F (13°C)</td><td>13 hours</td><td>18 hours ‡</td><td>9 days</td></tr><tr><td>45°F (7°C)</td><td>20 hours</td><td>24 hours ‡</td><td>13 days</td></tr><tr><td>40°F (4°C)</td><td>22 hours</td><td>28 hours ‡</td><td>18 days</td></tr><tr><td>35°F (0°C)</td><td>64 hours</td><td>72 hours ‡</td><td>30 days</td></tr></table>	Temperature	To Handle	To Topcoat	Immersion	90°F (32°C)	3 hours	4 hours ‡	7 days	75°F (24°C)	4 hours	5 hours ‡	7 days	65°F (18°C)	7 hours	9 hours ‡	8 days	55°F (13°C)	13 hours	18 hours ‡	9 days	45°F (7°C)	20 hours	24 hours ‡	13 days	40°F (4°C)	22 hours	28 hours ‡	18 days	35°F (0°C)	64 hours	72 hours ‡	30 days			
Temperature	To Handle	To Topcoat	Immersion																																	
90°F (32°C)	3 hours	4 hours ‡	7 days																																	
75°F (24°C)	4 hours	5 hours ‡	7 days																																	
65°F (18°C)	7 hours	9 hours ‡	8 days																																	
55°F (13°C)	13 hours	18 hours ‡	9 days																																	
45°F (7°C)	20 hours	24 hours ‡	13 days																																	
40°F (4°C)	22 hours	28 hours ‡	18 days																																	
35°F (0°C)	64 hours	72 hours ‡	30 days																																	

Curing time varies with surface temperature, air movement, humidity and film thickness.

† **Note:** Specific application requirements, including cure schedules and environmental conditions, must be followed when topcoating Series 141. Contact Tnemec Technical Service for detailed instructions. **Note:** Maximum recoat time with itself is seven days. **Note:** For one-coat pipe and valve applications, allow 30 days cure at 75°F (24°C) prior to immersion. Refer to product listing on [www.nsf.org](http://www.nsf.org) for specific potable water return to service information.



## PRODUCT DATA SHEET

## TNAME-ZINC SERIES 90-97

## PRODUCT PROFILE

GENERIC DESCRIPTION	Aromatic Urethane, Zinc-Rich
COMMON USAGE	An advanced technology, two-component, moisture-cured, zinc-rich primer providing extraordinary performance. It's user friendly and rapid curing so chemical- and corrosion-resistant topcoats can be applied the "same-day." Also used for field touch-up of inorganic zinc coating. Application methods include "dry-fall" under certain conditions (see Application).
COLORS	90-97 Reddish-gray
ZINC PIGMENT	83% by weight in dried film
SPECIAL QUALIFICATIONS	Series 90-97 meets <b>AISC</b> requirements of Class B surface with a mean slip coefficient no less than 0.50 and a tension creep not in excess of .005 inches (.13mm). Tname-Zinc uses a zinc pigment which meets the requirements of <b>ASTM D 520 Type III</b> and contains less than .002% lead. This level qualifies it to be classed as "non-lead" (less than 0.009% lead by weight) as defined in 16 CFR Part 1303 of the Consumer Product Safety Commission regulations. Conforms to <b>SSPC Paint 20, Type II</b> .
PERFORMANCE CRITERIA	Extensive test data available. Contact your Tnemec representative for specific test results.

## COATING SYSTEM

TOPCOATS	Series 1, 6, 27, 27WB, 46H-413, 66, L69, L69F, N69, N69F, V69, V69F, 73, 104, 113, 114, 115, 135, 161, 394, 1028, 1029, 1074, 1074U, 1075, 1075U <b>Note:</b> Certain topcoat colors may not provide one-coat hiding depending on method of application. Contact your Tnemec representative. <b>Note:</b> Series 90-97 must be exterior exposed for three days prior to topcoating with Series 1028 or 1029. <b>Note:</b> Series 90-97 must be exterior exposed for one day prior to topcoating with Series 27WB.
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## SURFACE PREPARATION

**Severe Exposure:** SSPC-SP10/NACE 2 Near-White Blast Cleaning with a minimum angular anchor profile of 1.5 mils.  
**Moderate Exposure:** SSPC-SP6/NACE 3 Commercial Blast Cleaning with a minimum angular anchor profile of 1.5 mils.

## TECHNICAL DATA

VOLUME SOLIDS	63.0 ± 2.0% (mixed)		
RECOMMENDED DFT	2.5 to 3.5 mils (65 to 90 microns) per coat.		
CURING TIME	Without 44-710		
	Temperature †	To Handle	To Recoat
	75°F (24°C)	1 hour	4 hours
	65°F (18°C)	1 1/2 hours	5 hours
	55°F (13°C)	2 hours	6 hours
	45°F (7°C)	2 1/2 hours	7 hours
	35°F (2°C)	3 hours	8 hours
† 50% relative humidity. Curing time will vary with surface temperature, humidity and film thickness.			
Note: For faster curing, low humidity and low-temperature applications, add No. 44-710 Urethane Accelerator (See separate product data sheet).			
VOLATILE ORGANIC COMPOUNDS	Unthinned: 2.68 lbs/gallon (321 grams/litre) Thinned 2.5% (No. 2 or No. 3 Thinner): 2.79 lbs/gallon (334 grams/litre) Thinned 10% (No. 2 or No. 3 Thinner): 3.10 lbs/gallon (371 grams/litre)		
HAPS	Unthinned: 5.12 lbs/gal solids Thinned 2.5%: 5.41 lbs/gal solids (No. 2 Thinner); 5.13 lbs/gal solids (No. 3 Thinner) Thinned 10%: 6.27 lbs/gal solids (No. 2 Thinner); 5.16 lbs/gal solids (No. 3 Thinner)		
THEORETICAL COVERAGE	1,011 mil sq ft/gal (24.8 m²/L at 25 microns). See APPLICATION for coverage rates.		
NUMBER OF COMPONENTS	Two: Part A and Part B		
PACKAGING	Four-Gallon and One-Gallon Kits: Consist of one premeasured container of liquid (Part A) and one premeasured container of powder (Part B). When mixed, yields four gallons (15.1L) or one gallon (3.79L).		
NET WEIGHT PER GALLON	23.94 ± 0.60 lbs (10.86 ± .27 kg)		
STORAGE TEMPERATURE	Minimum 20°F (-7°C) Maximum 110°F (43°C)		
TEMPERATURE RESISTANCE	Dry (Continuous) 250°F (121°C) Intermittent 300°F (149°C)		
SHelf LIFE	Part A: 12 months at recommended storage temperature. Part B: 24 months at recommended storage temperature.		
FLASH POINT - SETA	Part A: 78°F (26°C) Part B: N/A		
HEALTH & SAFETY	Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. <b>Keep out of the reach of children.</b>		





# ENDURA-SHIELD® SERIES 73

PRODUCT DATA SHEET

## PRODUCT PROFILE

GENERIC DESCRIPTION	Aliphatic Acrylic Polyurethane
COMMON USAGE	A coating highly resistant to abrasion, wet conditions, corrosive fumes, chemical contact and exterior weathering. High build quality combines with project specific primers for two-coat, labor saving systems. NOT FOR IMMERSION SERVICE.
COLORS	Refer to Tnemec Color Guide. <b>Note:</b> Certain colors may require multiple coats depending on method of application and finish coat color. When feasible, the preceding coat should be in the same color family (Blue, gray, etc.), but noticeably different.
FINISH	Semi-gloss
SPECIAL QUALIFICATIONS	Series 73 meets the accelerated weathering requirements of SSPC Paint Standard 36.
PERFORMANCE CRITERIA	Extensive test data available. Contact your Tnemec representative for specific test results.

## COATING SYSTEM

PRIMERS	<b>Steel:</b> Series 1, 20, PC20, 27, 37H, 66, L69, L69F, N69, N69F, V69, V69F, 90-97, H90-97, 90G-1K97, 91-H <sub>2</sub> O, H91-H <sub>2</sub> O, 94-H <sub>2</sub> O, 135, L140, L140F, N140, N140F, V140, V140F, 141, 161, 394, 530 <b>Galvanized Steel &amp; Non-Ferrous Metal:</b> Series 66, L69, L69F, N69, N69F, V69, V69F, 161 <b>Concrete:</b> Series 66, L69, L69F, N69, N69F, V69, V69F, 141, 161, 1254 <b>CMU:</b> Series 1254 <b>Note:</b> Series 530 exterior exposed more than 24 hours, Series L69, N69, V69, 135, L140, N140, or V140 exterior exposed more than 60 days, Series L69F, N69F, V69F, L140F, N140F or V140F exterior exposed more than 30 days, or Series 141 exterior exposed more than 14 days must first be scarified or reprimed with themselves. Brush blasting with fine abrasive is the preferred method of scarification. Recoat windows for other primers may apply. See those data sheets for additional information.
TOPCOATS	Series 700, 701, 740, 750, 1070, 1070V, 1071, 1071V, 1072, 1072V, 1074, 1074U, 1075, 1075U, 1077, 1078

## SURFACE PREPARATION

ALL SURFACES	Must be clean, dry and free of oil, grease and other contaminants. See primer product data sheet for surface preparation recommendation.
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## TECHNICAL DATA

VOLUME SOLIDS	58.0 ± 2.0% (mixed) †					
RECOMMENDED DFT	2.0 to 5.0 mils (50 to 125 microns) per coat. <b>Note:</b> Number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.					
CURING TIME	Temperature		To Touch		To Handle	
	75°F (24°C)		1 hour		5-8 hours	
VOLATILE ORGANIC COMPOUNDS					To Recoat	
					12 hours	
	Curing time varies with surface temperature, air movement, humidity and film thickness. <b>Note:</b> For faster curing and low-temperature applications, add No. 44-710 Urethane Accelerator; see separate product data sheet.					
	Unthinned	Thinned 10% (Max) (No. 39 Thinner)	Thinned 10% (Max) (No. 42 Thinner)	Thinned 10% (Max) (No. 48 Thinner)	Thinned 10% (Max) (No. 56 Thinner)	Thinned 10% (Max) (No. 63 Thinner)
	2.70 lbs/gallon (324 grams/litre)	3.05 lbs/gallon (366 grams/litre)	3.10 lbs/gallon (371 grams/litre)	3.15 lbs/gallon (378 grams/litre)	2.76 lbs/gallon (331 grams/litre)	3.07 lbs/gallon (368 grams/litre)
HAPS						
	Unthinned	Thinned 10% (Max) (No. 39 Thinner)	Thinned 10% (Max) (No. 42 Thinner)	Thinned 10% (Max) (No. 48 Thinner)	Thinned 10% (Max) (No. 56 Thinner)	Thinned 10% (Max) (No. 63 Thinner)
	0.27 lbs/gal solids	0.27 lbs/gal solids	0.27 lbs/gal solids	0.27 lbs/gal solids	0.27 lbs/gal solids	0.32 lbs/gal solids
THEORETICAL COVERAGE	930 ml sq ft/gal (22.8 m <sup>2</sup> /L at 25 microns). †					
NUMBER OF COMPONENTS	Two: Part A and Part B					
MIXING RATIO	By volume: Four (Part A) to one (Part B)					
PACKAGING			PART A		PART B	
			When Mixed			
	5 Gallon Kit		5 gallon pail (partial fill)		1 gallon can	
	1 Gallon Kit		1 gallon pail (partial fill)		1 quart can (partial fill)	
					5 gallons (18.9L)	
					1 gallon (3.79L)	
NET WEIGHT PER GALLON	12.13 ± 0.25 lbs (5.50 ± .11 kg) †					
STORAGE TEMPERATURE	Minimum 20°F (-7°C) Maximum 110°F (43°C)					
TEMPERATURE RESISTANCE	(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)					
SHELF LIFE	Part A: 24 months at recommended storage temperature.					
	Part B: 12 months at recommended storage temperature.					
FLASH POINT - SETA	Part A: 55°F (13°C) Part B: 112°F (43°C)					
HEALTH & SAFETY	Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.					
	<b>Keep out of the reach of children.</b>					

**HYDROFLON®**

PRODUCT DATA SHEET

**SERIES 700****PRODUCT PROFILE**

<b>GENERIC DESCRIPTION</b>	Advanced Thermoset Solution Fluoropolymer
<b>COMMON USAGE</b>	An exterior finish coat especially designed for tanks and other exposed steel substrates. Hydroflon has outstanding resistance to ultra-violet light degradation providing unprecedented long-term gloss and color retention with excellent resistance to abrasion and chalking. It is aesthetically pleasing and recommended for coastal environments and on structures where extremely long-term maintenance cycles are desired. <b>NOT FOR IMMERSION SERVICE.</b>
<b>COLORS</b>	Refer to Tnemec Color Guide. <b>Note:</b> Certain colors may require multiple coats depending on method of application and finish coat color. The preceding coat should be in the same color family, but noticeably different. Upon selection of the finish coat color (Series 700), the intermediate coat will be selected by Tnemec's color lab.
<b>FINISH</b>	Gloss
<b>SPECIAL QUALIFICATIONS</b>	Series 700 meets the weathering requirements of AWWA Outside Coating System No. 4 (OCS-4) in accordance with AAMA 2604.
<b>PERFORMANCE CRITERIA</b>	Contact your Tnemec representative for specific test results.

**COATING SYSTEM**

<b>PRIMERS</b>	Series 1, 20, PG20, 27, 66, L69, L69F, N69, N69F, V69, V69F, 90-97, H90-97, 91-H <sub>2</sub> O, 94-H <sub>2</sub> O, 135, L140, L140F, N140, N140F, V140, V140F, 161, 394
<b>INTERMEDIATE</b>	Series 73, 750, 1075, 1075U <b>Note:</b> When topcoating with Series 700, the following maximum recoat times apply: Over itself, 30 days; over 750, 45 days; over 73, 1075 and 1075U, 90 days.

**SURFACE PREPARATION**

<b>EXTERIOR EXPOSURE</b>	See primer product data sheet for surface preparation recommendation.
<b>ALL SURFACES</b>	Must be clean, dry and free of oil, grease and other contaminants.

**TECHNICAL DATA**

<b>VOLUME SOLIDS</b>	60.0 ± 2.0% (mixed) †																
<b>RECOMMENDED DFT</b>	2.0 to 3.0 mils (50 to 75 microns) per coat. <b>Note:</b> Number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.																
<b>CURING TIME</b>	<table><tr><th>Temperature</th><th>To Touch</th><th>To Handle</th><th>Minimum Recoat ‡</th></tr><tr><td>90°F (32°C)</td><td>10 minutes</td><td>4 hours</td><td>5-8 hours</td></tr><tr><td>70°F (21°C)</td><td>30 minutes</td><td>6-8 hours</td><td>10-12 hours</td></tr><tr><td>50°F (10°C)</td><td>1 hour</td><td>12-15 hours</td><td>16-24 hours</td></tr></table>	Temperature	To Touch	To Handle	Minimum Recoat ‡	90°F (32°C)	10 minutes	4 hours	5-8 hours	70°F (21°C)	30 minutes	6-8 hours	10-12 hours	50°F (10°C)	1 hour	12-15 hours	16-24 hours
Temperature	To Touch	To Handle	Minimum Recoat ‡														
90°F (32°C)	10 minutes	4 hours	5-8 hours														
70°F (21°C)	30 minutes	6-8 hours	10-12 hours														
50°F (10°C)	1 hour	12-15 hours	16-24 hours														
	† Maximum recoat: 30 days. Curing time varies with surface temperature, air movement, humidity and film thickness. <b>Note:</b> For faster curing and low-temperature applications, add No. 44-710 Urethane Accelerator; see separate product data sheet.																
<b>VOLATILE ORGANIC COMPOUNDS</b>	<b>Unthinned:</b> 2.93 lbs/gallon (351 grams/litre) <b>Thinned 5% (No. 65 Thinner):</b> 3.10 lbs/gallon (371 grams/litre) †																
<b>HAPS</b>	<b>Unthinned:</b> 4.1 lbs/gal solids																
<b>THEORETICAL COVERAGE</b>	962 mil sq ft/gal (23.6 m <sup>2</sup> /L at 25 microns). †																
<b>NUMBER OF COMPONENTS</b>	Two: Part A and Part B																
<b>MIXING RATIO</b>	By volume: Five (Part A) to one (Part B)																
<b>PACKAGING</b>	<table><tr><th></th><th>PART A</th><th>PART B</th><th>Yield (mixed)</th></tr><tr><td>Medium Kit</td><td>5 gallon pail partially filled</td><td>1/2 gallon pail</td><td>3 gallons (11.35L)</td></tr><tr><td>Small Kit</td><td>1 gallon can partially filled</td><td>1 quart can partially filled</td><td>1 gallon (3.79L)</td></tr></table>		PART A	PART B	Yield (mixed)	Medium Kit	5 gallon pail partially filled	1/2 gallon pail	3 gallons (11.35L)	Small Kit	1 gallon can partially filled	1 quart can partially filled	1 gallon (3.79L)				
	PART A	PART B	Yield (mixed)														
Medium Kit	5 gallon pail partially filled	1/2 gallon pail	3 gallons (11.35L)														
Small Kit	1 gallon can partially filled	1 quart can partially filled	1 gallon (3.79L)														
<b>NET WEIGHT PER GALLON</b>	11.48 ± 0.25 lbs (5.21 ± .11 kg) (mixed) †																
<b>STORAGE TEMPERATURE</b>	Minimum 20°F (-7°C) Maximum 110°F (43°C)																
<b>TEMPERATURE RESISTANCE</b>	(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)																
<b>SHELF LIFE</b>	12 months at recommended storage temperature.																
<b>FLASH POINT - SETA</b>	Part A: 81°F (27°C) Part B: 130°F (54°C)																
<b>HEALTH &amp; SAFETY</b>	Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. <b>Keep out of the reach of children.</b>																

Appendix D:

**Drug-Free Workplace Affidavit**

State of Tennessee

County of Maury

As part of the City of Spring Hill's Drug Free Workplace policy, the City has adopted a drug and alcohol testing program for its employees. The City's testing program may consist of a periodical random employee selection process. The selected employees may be tested for drug and alcohol substance abuse. Should an employee test positive for drugs or alcohol then the employee may be required to enroll and complete a drug treatment program. Should the employee be randomly selected and test positive a second time, then he or she could possibly be terminated. The City of Spring Hill requires that all bidders (who submit bids for the City of Spring Hill projects) submit an affidavit that the bidder operates a drug and alcohol testing program with requirements "at least as stringent as that of the program operated by the City of Spring Hill".

The undersigned, principal officer of \_\_\_\_\_, an employer of five (5) or more employees bidding on a project for the City of Spring Hill, Tennessee government to provide construction services, hereby state under oath as follows:

- 1) The undersigned is a principal officer of \_\_\_\_\_, (hereinafter referred to as the "Company"), and is duly authorized to execute this Affidavit on behalf of the Company.
- 2) The Company submits this Affidavit pursuant to T.C.A. 50-9-113 and T.C.A. 50-9-114, which requires each employer with no less than five (5) employees receiving pay who bids and contracts with the state or any local government to provide construction services to submit an affidavit stating that such employer has a drug free workplace program that complies with Title 50, Chapter 9 of the Tennessee Code Annotated and that is as stringent as the City of Spring Hill's program described above.
- 3) The Company is in compliance with T.C.A. 50-9-113 and T.C.A. 50-9-114.

Further affiant saith not.

\_\_\_\_\_  
Principal Officer

State of Tennessee

County of \_\_\_\_\_

Before me personally appeared \_\_\_\_\_, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and who acknowledged that such person executed the foregoing affidavit of the purposes therein contained.

Witness my hand and seal at office this day of \_\_\_\_\_ 2016.

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_