



**GUIDELINE SPECIFICATION FOR NSF-61 CERTIFIED POLYUREA COATING
INSTALLED AS A LINER SYSTEM TO INTERIOR OF STEEL WALLED TANK**

PROJECT:

ADDRESS:

CONTACT:
TELEPHONE #:

SQ. FT. AREA OF TANK:

CONTRACTOR OR RECORD:

DATE WORK COMMENCES:

DATE WORK COMPLETED:

REQUESTED WARRANTY:

NOTE:

The following is offered as a general guide for the installation of an NSF-61 approved Polyurea coating to prepared interior steel configured tank.

PART I - GENERAL REQUIREMENTS

1.01 WORK INCLUDED:

A. Provide all labor, materials, equipment and supervision necessary to complete the preparation, cleaning, priming and application of Polyurea coating in accordance with this specification and manufacturer's instructions. Principal items of work include but not limited to:

1. The successful contractor shall provide for Staging of the tank interior using scaffolding. Removal of any and all rust scale or bloom of the interior tank walls by means of blast, wire brush, scrape and achieving a minimum 3 mil profile of prepared steel wall surfaces.

2. All surfaces are to be clean, dry and free of debris and other contaminants. The use of a dehumidification process may be required.

3. Priming of all metal surfaces to receive the NSF-61 CERTIFIED POLYUREA COATING.



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4. Apply specified POLYUREA COATING TO PROPERLY PREPARED AND PRIMED SURFACES.

1.02 WORK EXCLUDED:

A. Repair to structural components of the existing steel tank.

B. Replacement of or modification to drains, vents, access ports or other associated tank accessories.

1.03 APPROVED MANUFACTURERS AND APPLICATORS:

A. The Manufacturers, applicators, system materials and all items associated with the coating system installation shall be used only if approved by the Owner/Architect/Consultant. All work under this section shall be installed by an applicator that has been approved in writing by the Manufacturer or the system specified prior to bid date.

B. The successful contractor shall own and operate equipment necessary to properly install the specified Polyurea coating system. Sub-contracting of the coating applications will not be allowed.

C. The approved NSF-61 CERTIFIED POLYUREA coating system shall be _____ PW or approved equal.

1.04 SUBMITTALS:

A. Copies of the Manufacturer's published technical data, ASTM test methods and resulting data to support published properties shall be submitted to the Owner's Representative prior to bid date.

B. Applicators written applicator status of acceptance, copy of the applicators daily quality control report, copy of applicator's project outline noting the anticipated timeframe for project completion reinstalling the tank's use back on line, and a list of references. Names of contacts shall demonstrate the applicator's experience of properly installing the 1 to 1 ratio Polyurea coatings.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING:

A. Deliver materials in unopened Manufacturer's containers with the Manufacturer's labels affixed and legible. The Manufacturer's name, product name, type, lot numbers or batch numbers, mixing instructions if applicable and precautions shall be clearly visible and available for review if requested.

B. Materials shall be delivered to the designated staging area of project location in sufficient quantities so as not to cause delays or disruption to the daily activities.

C. The Contractor/Applicator shall be responsible for the proper storage and protection of all materials required. Materials shall be stored in compliance with the Manufacturer's printed instructions as to temperature and other conditions or limitations. In all cases, the storage and handling of materials shall conform to the requirements of the Manufacturer, local, state and federal safety regulatory agencies.

1.06 PRE-CONSTRUCTION CONFERENCE:

A. Prior to start of the project, a meeting shall be held at the job site attended by the



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Contractor/Applicator, Owner's Representative and any onsite clerk of the works.

1.07 ENVIRONMENTAL REQUIREMENTS:

A. Contractor/Applicator shall take all necessary precautions for safety, protection equipment, clothing, other adjacent facilities.

B. Do not install coating materials under the following conditions:

1. When designated surfaces are wet. Environmental climatic conditions shall be included and recorded into the Daily Applicator Quality Control reports.

2. If surface contaminants exist such as rust blooms, dirt or if any tie-in to existing has not been properly prepared to receive new coating.

1.08 FIELD QUALITY CONTROL PROGRAM:

A. Daily quality control reports shall be maintained by the Applicator recording environmental conditions twice daily, equipment readings such as pressure, temperature, gun type, tip size, start up and shut down procedures, material temperature, type dispensed and amounts, mil thickness sampling and type of work completed and size of area completed.

B. Material Product Data Sheets and Material Safety Data Sheets shall be posted in open for accessibility and review.

PART 2 PRODUCTS

2.01 MATERIALS:

A. All products listed are manufactured, supplied or approved by _____ of

1. Blast shall be in compliance with SPC-10 and achieving a minimum or a 3 mil surface profile. Blast medium shall be Gk-25 steel shot.

2. Primer: _____ Primer, if applicable, i.e. based on a SPC-10 blast with a minimum of a 3 mil profile. Primer application requirement to be considered prior to job start up and in compliance with environmental and substrate conditions. The determination of use shall be at the discretion of the Technical Department of the Manufacturer for the herein specified system.

<u>TECHNICAL DATA</u>	
SPECIFIC GRAVITY	
Part A ...	1.18
Part B....	1.01
Hardness, ASTM D-2240..	70+/-10D
Gel time @ 75degrees F, ASTM D2471..	90-120 seconds
Tack free time @ 75 degrees F ...	5-7 minutes
Sandable time @ 75 degrees F.....	20-30 minutes
Tensile, ASTM D-412	2100+/- 300 psi
Elongation, ASTM D-412.....	30%+/- 5%
Total solids, volume, ASTM D-2697	100%
Volatile Organic Compounds, ASTM D-2369-81.....	0.0 lb/gal.



3. NSF/ANSI-61 CERTIFIED

_____, Two component, 100 %
Solids Aromatic Potable Water Containment
Polyurea Industrial Coating down to -20F.

Technical data	
Mix ratio by volume.....	1A : 1B
Pot life @ 150 degrees.....	4 to 8 secs
Tack free (thickness & substrate Temperatures dependent)	45 to 60 secs
Recoat time	0 to 6 hours
Tensile strength, ASTM D-412 ...	3500+/-200psi
Elongation, ASTM D-412	450%+/-50%
Tear, ASTM D-412.....	450+/-50pli
VOC Content	0 gm/lit
Return to service	>24 hours
Water Vapor Permeability, ASTM E-96	0.361 perm inch

Manufacturer of High Performance Foam/Coatings & Application Equipment

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