

SECTION 099100 - PAINTING

PART 1 – GENERAL

1.01 DESCRIPTION

- A. This section includes the furnishing of paint, preparation and field application, and staining as indicated on the drawings or specified herein.
- B. Related Work:
 - 1. Section 40 05 20, Plant Pipe and Fittings

1.02 QUALITY ASSURANCE

- A. Include the following on labels of each paint container:
 - 1. Manufacturer's name and stock number, type and color of paint
 - 2. Instructions for use and application and reducing, where applicable
 - 3. Label analysis

1.03 SUBMITTALS

- A. Submit the following in accordance with Section 013300:
 - 1. Manufacturer's standard product data describing recommended uses of material, application recommendations and label analysis. Provide certification that products are recommended for the intended service.
- B. Colors:
 - 1. Submit manufacturer's standard color charts for materials proposed for use. Reference ANSI/ASME A13.1.
 - 2. The **ENGINEER** and **OWNER** will select the final colors and/or manufacturers color numbers and a schedule of color placement after award of contract for this project.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver paint and materials to the site in manufacturer's original sealed containers with labels and directions intact and legible. Remove all soiled or used rags, waste and trash from paint storage area daily, and take every precaution to avoid danger of fire.

1.05 JOB CONDITIONS

- A. Do not apply paints when surface temperature is below 50°F (10°C) unless otherwise specified. Do not paint exterior surfaces during damp, frosty or rainy weather or until surface has thoroughly dried from effects of such weather. Avoid painting surfaces

exposed to hot sun.

- B. During painting operations, take all precautions to protect floors, concrete, aluminum, glass, and other prefinished surfaces from paint spatter, spillage and other soiling. Upon completion of the work, remove all paint and varnish spots from floors, glass and other surfaces.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Each paint system shall be from a single manufacturer. The paints and paint products specified herein are manufactured by TNE MEC and ICI Devoe Coatings and are intended to establish a standard of quality. The products of other paint manufacturers may be used subject to review and approval by **ENGINEER**.
- B. All finish colors are to be selected by **OWNER**.
- C. All paint systems are to be used and applied as per manufacturer recommendations. All paint systems shall only be applied over surfaces prepared as per manufacturer recommendations. Total system dry film thickness (DFT) as per manufacturer recommendations for the application.

2.02 EXTERIOR PAINT

- A. Piping:
 - 1. General Service: Paint shall consist of one coat primer and two finish coats.
 - a. Tnemec
 - 1. 1st Coat: Tnemec – Series 141 Epoxoline
 - 2. 2nd Coat: Tnemec – Series 1029 Enduratone
 - 3. 3rd Coat: Tnemec – Series 1029 Enduratone
 - b. Sherwin Williams
 - 1. 1st Coat: Sherwin-Williams – Macropoxy 646 Epoxy
 - 2. 2nd Coat: Sherwin-Williams – Pro Industrial High Performance Epoxy
 - 3. 3rd Coat: Sherwin-Williams – Pro Industrial High Performance Epoxy
 - c. or approved equal

2.03 INTERIOR PAINT

- A. Piping:
 - 1. General Service: Paint shall consist of one coat primer and two finish coats.
 - a. Tnemec
 - 1. 1st Coat: Tnemec – Series 27 WB Typoxy

2. 2nd Coat: Tnemec – Series 1029 Enduratone
 3. 3rd Coat: Tnemec – Series 1029 Enduratone
- b. Sherwin Williams
1. 1st Coat: Sherwin-Williams – Macropoxy 646 Epoxy
 2. 2nd Coat: Sherwin-Williams – Pro Industrial High Performance Epoxy
 3. 3rd Coat: Sherwin-Williams – Pro Industrial High Performance Epoxy
- c. or approved equal

2.04 ACCEPTABLE MANUFACTURERS

- A. Specifications and products scheduled are of the following manufacturers:
1. Tnemec, Inc.
 2. The Sherwin-Williams Company
- B. Specifications are derived from above manufacturer's standard specification numbers for a complete coating system, including primers, undercoats, finish coats, and varnishes, as applicable. Equivalent products of other first quality manufacturers will be acceptable subject to compliance with specified systems with regard to type of paint in system, spreading rate, wet or dry film thickness, and sheen.
- a. Use only top quality materials on the project. Materials not specified but required for successful application of a specified paint or coating must be of the brand and type recommended by the approved paint manufacturer. Use materials in strict accord with manufacturer's directions, including spreading rate, number of coats and wet or dry film thickness.

PART 3 - EXECUTION

3.01 SURFACE PREPARATION

- A. Remove hardware, accessories, plates, and similar items in place but not to be painted or provide adequate protection, prior to preparing surfaces for painting. Reinstall items at completion of painting. Use only skilled mechanics for removing and connection of above items.
- B. Do not paint stainless steel, copper, fixtures, brass, bronze, pre-painted equipment, chlorinating equipment, or glass.
- C. Ferrous Metal: Remove grease, rust, scale, and dust. Touch up chipped or abraded areas on shop coated items. Where steel and iron have a coating of scale, remove by wire brushing or sand blasting to produce a satisfactory painting surface.

3.02 APPLICATION

- A. Employ only skilled mechanics to ensure the very best workmanship. Paint all surfaces scheduled, noted on drawings, or herein specified.
- B. Surfaces to be painted shall be clean, dry, smooth, and adequately protected from

damage. Spread each coat evenly and smoothly without runs, sags, drips, brush marks, thin spots, or other defects.

- C. Apply all materials under adequate illumination. Apply paint at proper consistency, not thinned or otherwise altered, except in accordance with manufacturer's printed instructions. Tint each coat slightly darker than preceding coat. Allow each coat to dry thoroughly before applying succeeding coats.
- D. Protect paint work and adjacent work at all times by suitable covering. Upon completion of work, remove all paint spots from adjacent surfaces, remove all rubbish and accumulated materials of whatever nature, and leave work in clean, orderly and acceptable condition.

END OF SECTION

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