SECTION 09873.1 (CUSTOM)
INTERIOR COATING, DISINFECTION, AND EXTERIOR PAINTING
OF A NEW WELDED STEEL WATER TANK
USING BOTH SHOP AND FIELD COATING OPERATIONS

3.06 APPLICATION, INTERIOR COATING SYSTEMS

A. After completion of surface preparation as specified, tank floor and bottom one-half foot of shell shall receive a 100% solids epoxy system, and all other surfaces shall receive a three coat epoxy system. All coating materials shall appear on the current ANSI/NSF Standard 61, latest. Topcoat shall be white. The total system shall be one of the following systems:

1. Carboline Company:

a. Floor and Bottom one-half foot of shell

i) Prime Coat: Carbozinc 859 VOC or equal (must be NSF 61 certified), Minimum Dry Film Thickness 2.5 mils
ii) Top Coat: Phenoline 341, Minimum Dry Film Thickness 30 mils
iii) The minimum dry film thickness of the completed system shall be 32 mils (0.032").

b. Shell and Roof

i) Prime Coat: Carbozinc 859 VOC or equal (must be NSF 61 certified), Minimum Dry Film Thickness 2.5 mils
ii) First Intermediate Coat: Carboguard 891 VOC, Minimum Dry Film Thickness 4-6 mils
iii) Second Intermediate Coat: Carboguard 891 VOC, Minimum Dry Film Thickness 4-6 mils
iv) Topcoat: Carboguard 891 VOC, Minimum Dry Film Thickness 4-6 mils
v) The minimum dry film thickness of the completed system shall be 17 mils (0.017").

2. Sherwin Williams Company:

a. Floor and Bottom one-half foot of shell

i) Prime Coat: Corothane 1 GalvaPac, Minimum Dry Film Thickness 2.5 mils
ii) Top Coat: SherPlate PW Epoxy, Minimum Dry Film Thickness 30 mils
iii) The minimum dry film thickness of the completed system shall be 32 mils (0.032").

b. Shell and Roof

i) Prime Coat: Corothane 1 GalvaPac, Minimum Dry Film Thickness 2.5 mils
ii) First Intermediate Coat: Macropoxy 5500, Minimum Dry Film Thickness 4-6 mils
iii) Second Intermediate Coat: Macropoxy 5500, Minimum Dry Film Thickness 4-6 mils
iv) Topcoat: Macropoxy 5500, Minimum Dry Film Thickness 4-6 mils
v) The minimum dry film thickness of the completed system shall be 17 mils (0.017").

3. Tnemec Company:

a. Floor and Bottom one-half foot of shell

i) Prime Coat: Series 94-H_2O Hydro-Zinc, Minimum Dry Film Thickness 2.5 mils
ii) Top Coat: Series 22 Epoxoline, Minimum Dry Film Thickness 30 mils
iii) The minimum dry film thickness of the completed system shall be 32 mils (0.032").

b. Shell and Roof

i) Prime Coat: Series 94-H_2O Hydro-Zinc, Minimum Dry Film Thickness 2.5 mils
ii) First Intermediate Coat: Series L140F Pota-Pox Plus, Minimum Dry Film Thickness 4-6 mils
iii) Second Intermediate Coat: Series L140F Pota-Pox Plus, Minimum Dry Film Thickness 4-6 mils
iv) Topcoat: Series L140F Pota-Pox Plus, Minimum Dry Film Thickness 4-6 mils
v) The minimum dry film thickness of the completed system shall be 17 mils (0.017").

3.07 APPLICATION, EXTERIOR PAINT SYSTEMS

A. After completion of surface preparation as specified, all surfaces shall receive three complete coats of one of the following systems:

1. Carboline Company

   a. Shop Prime Coat: Carbozinc 859 VOC, Minimum Dry Film Thickness 2.5 mils
   b. Intermediate Coat: Carboguard 890 VOC, Minimum Dry Film Thickness 4-6 mils
   c. Finish Coat: Carbothane 134 MC, Minimum Dry Film Thickness 2-4 mils
   d. The minimum dry film thickness of the completed system shall be 10 mils (0.010").

2. Sherwin Williams Company

   a. Shop Prime Coat: Corothane 1 GalvaPac, Minimum Dry Film Thickness 2.5 mils
   b. Intermediate Coat: Macropoxy 646-100, Minimum Dry Film Thickness 3-5 mils
   c. Finish Coat: Sher-Loxane 800 Polysiloxane, Minimum Dry Film Thickness 4-6 mils
   d. The minimum dry film thickness of the completed system shall be 10 mils (0.010").

3. Tnemec Company

   a. Shop Prime Coat: Series 94-H_2O Hydro-Zinc, Minimum Dry Film Thickness 2.5 mils
   b. Intermediate Coat: Series L69F, Minimum Dry Film Thickness 4-6 mils
   c. Finish Coat: 1095 Eudurashield, Minimum Dry Film Thickness 2-4 mils
   d. The minimum dry film thickness of the completed system shall be 10 mils (0.010").

END OF SECTION 09873.1

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