

ARTICLE XIV- PAINTING

14.1 GENERAL - The work to be done under this Article consists of preparing and painting of new and existing steel frame surfaces at the Pier 2 Shed, Nawiliwili Harbor, as indicated on the drawings and as specified.

14.2 COLOR SELECTION - The color of the finish paint for all new and existing metal surfaces to be prepared and painted shall be selected by the Harbors Division Kauai District Manager.

14.3 MATERIAL - All paints shall be delivered to the site in the manufacturer's sealed containers. Each container shall be labeled by the manufacturer with the label showing name, brand type of paint, color of paint, and the manufacturer's instructions for reducing consistency. The painting materials shall be the following or approved equal:

- A. Pre-Treatment - The pre-treatment shall be a concentrated water-based surface cleaner low in odor, non-flammable, and biodegradable, "Devprep 88" as manufactured by Devoe High Performance Coatings or approved equal.
- B. Prime Coat - The prime coat shall be a high performance, two component, chemically cured epoxy coating, semi-gloss finish, "Bar-Rust 235V" as manufactured by Devoe High Performance Coatings or approved equal.
- C. Finish Coat - The finish coat shall be a high performance, two components, chemically cured aliphatic urethane paint, gloss finish, capable of being applied at a dry film thickness of 3 mils per coat, "Devthane 379UV A" as manufactured by Devoe High Performance Coatings or approved equal.

14.4 SURFACE PREPARATION

- A. New Metal Surfaces - All new metal surfaces to be painted shall be sound, dry and thoroughly cleaned of oil, grease, dirt and other foreign material by the use of chemical cleaning. Surface preparation shall conform to SSPC-SP-1, Chemical Cleaning.
- B. Existing Metal Surfaces - All existing exposed metal surfaces to be painted shall be thoroughly cleaned of oil, grease, dirt and other foreign material. Remove all loose paint, mill scale and rust. Surface preparation shall conform to SSPC-SP-2, Hand Tool Cleaning, and all current Federal and State regulations.

14.5 PAINTING SCHEDULE

- A. New Metal Surfaces - All new metal surfaces shall have one pre-treatment coat of the material specified in paragraph 14.3.A, one prime coat of the material specified in paragraph 14.3.B and two finish coats of the material specified in paragraph 14.3.C.
- B. Existing Metal Surfaces - All existing exposed metal surfaces shall be painted with one prime coat of the material specified in paragraph 14.3.B and one finish coat of the material specified in paragraph 14.3.C.

14.6 PAINTING APPLICATION

- A. All surfaces to be painted shall be properly prepared prior to painting and shall be inspected for approval by the Harbors Division Construction Engineer before painting will be allowed.
- B. Prime and finish coats shall be applied by brush or roller.
- C. The time interval between each coat of paint shall be at least 24 hours. The prime coat shall be of a lighter color than the finish coat.
- D. The prime coat for metal surfaces shall be applied at a rate to produce a dry film thickness of at least 4.0 mils. The finish coat shall be applied at a rate to produce a dry film thickness of 3.0 mils per coat. The finish dry film thickness of the two-coat system for existing metal surfaces shall be at least 7.0 mils. The finish dry film thickness of the three-coat system for new metal surfaces shall be at 10.0 mils.
- E. Finish work shall be uniform and of approved color. The finish shall completely cover, be smooth and be free from runs, sags, drips, waves, laps or brush marks. Edges of paint adjoining other surfaces or materials shall be sharp and clean without overlapping.

14.7 CLEAN-UP

- A. All paint, oil, etc. shall be cleaned off of pavement, floors, fixtures walls or any portion of the building where paint has splashed or been spilled.
- B. All unused rags, waste, and empty containers shall be removed from the work area at the end of each workday and precautions shall be taken to avoid the danger of fire.
- C. The Contractor shall maintain the job site in a neat and orderly condition during the progress of the work. Upon completion, the Contractor shall remove all surplus material, debris, equipment, tools, etc. belonging to it and leave the premises in a neat and orderly condition

14.8 PAYMENT - Payment for painting shall be made as described in Article X of these Specifications.