

PRESERVE SHIP STRUCTURES

1. SCOPE

1.1 Scope. This standard specification describes the requirements for the preservation of various structures or surfaces of Coast Guard vessels.

1.2 Index of tables and forms. The below-listed coating system tables and quality assurance (QA) forms are part of this document.

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2. APPLICABLE DOCUMENTS

TT-P-28G, Paint, Aluminum, Heat-Resisting (1200 Deg. F.), 28 Aug 92

FED-STD-595B, Color used in Government Procurement, 15 Dec 1989

TT-S-711C, Stain, Oil Type, Wood, Interior, 1 Jun 1978

A-A-59316, Abrasive Materials, For Blasting, 3 Feb 1999

MIL-P-15931F, Paint, Antifouling, Vinyl (Formulas No. 121a, And 129a), Amendment 1, 16 Sep 1994

MIL-PRF-16173E, Corrosion Prevention Compound, Solvent Cut-back, Cold-Application, Revision E, 06 Jan 1993

MIL-PRF-17951E(2), Deck Covering, Lightweight, Nonslip Abrasive Particle Coated Fabric, Film, or Composite, and Sealing Compound, Revision E, Amendment 2, 17 Sep 1992

MIL-A-22262B(2), Abrasive Blasting Media Ship Hull Blast Cleaning, Amendment 2, Revision B, 21 Mar 96

MIL-PRF-23236B(2), Paint Coating Systems, Fuel and Salt Water Ballast Tanks (Metric), Revision B, Amendment 2, 30 Apr 1990

MIL-PRF-24596(4), Coating Compounds, Nonflaming Fire-protective (metric), Amendment 4, 23 Aug 1985

MIL-PRF-24635B, Enamel, Silicone Alkyd Copolymer, 30 Jun 1994

MIL-PRF-24647B(1), Paint System, Anti-Corrosive and Antifouling, Ship Hull, Amendment 1, 9 Aug 1994

DOD-PRF-24648(1), Primer Coating, Zinc Dust Pigmented For Exterior Steel Surfaces, Amendment 1, 05 Mar 1991

MIL-PRF-24667, Coating System, Non-Skid For Roll or Spray Application, 14 Aug 1992

QPL-24667, Coating System, Non-Skid, For Roll Or Spray Application, 29 Mar 2001

MIL-PRF-46081A, Coating Compound, Thermal Insulating (Intumescent), 05 Aug 1970

MIL-C-81309E(3), Corrosion Preventive Compounds, Water Displacing, Ultra-Thin Film, Revision E, Amendment 3, 26 Nov 1997

Naval Ships' Technical Manual (NSTM), Chapter 634, Deck Coverings, Apr 1999

American National Standards Institute/NSF International (ANSI/NSF), ANSI/NSF International Standard for Drinking Water Additives - Standard 61, Drinking Water System Components - Health Effects, 13 Sep 2000

American Society for Testing and Materials (ASTM), C516-80, Standard Specification For Vermiculite Loose Fill Thermal Insulation

American Society for Testing and Materials (ASTM), D522-1993A, Standard Test Methods For Mandrel Bend Test Of Attached Organic Coatings

American Society for Testing and Materials (ASTM), D714-1987, Standard Test Method For Evaluating Degree Of Blistering Of Paints

American Society for Testing and Materials (ASTM), D2794-1993, Standard Test Method For Resistance Of Organic Coatings To The Effects Of Rapid Deformation (Impact)

American Society for Testing and Materials (ASTM), D4060-1995, Abrasion Resistance Of Organic Coatings By The Taber Abraser

American Society for Testing and Materials (ASTM), D4414-1995, Standard Practice For Measurement Of Wet Film Thickness By Notch Gages

American Society for Testing and Materials (ASTM), D4417-1993, Test Method for Field Measurement of Surface Profile of Blast Cleaned Steel

American Society for Testing and Materials (ASTM), D4541-1995, Standard Test Method for Pull-off Strength of Coatings Using Portable Adhesion Testers

American Society for Testing and Materials (ASTM), F718-1999, Standard For Shipbuilders And Marine Paints And Coatings Product/ Procedure Data Sheet

American Society for Testing and Materials (ASTM), G32-1998,
Standard Test Method For Cavitation Erosion Using Vibratory
Apparatus

Society of Automotive Engineers (SAE-AMS) 2431A, Peening Media -
General Requirements, 1 Sep 1996

Society of Automotive Engineers (SAE-AMS) 2431/6A, Peening Media
- Glass Shot, 1 May 1998

The Society for Protective Coatings (SSPC), Good Painting
Practice, SSPC Painting Manual, Volume 1, Third Edition, 1993

The Society for Protective Coatings (SSPC), Paint Application
Guide No. 3 (SSPC-PA Guide 3), 01 Jul 1995

The Society for Protective Coatings (SSPC), Surface Preparation
Specification No.1 (SSPC-SP 1), Solvent Cleaning, 01 Sep 2000

The Society for Protective Coatings (SSPC), Surface Preparation
Specification No.3 (SSPC-SP 3), Power Tool Cleaning, 01 Sep 2000

The Society for Protective Coatings (SSPC)/NACE International
(NACE) Joint Surface Preparation Standard SSPC-SP 5/NACE No.1,
White Metal Blast Cleaning, 01 Sep 2000

The Society for Protective Coatings (SSPC)/NACE International
(NACE) Joint Surface Preparation Standard SSPC-SP 6/NACE No.3,
Commercial Blast Cleaning, 01 Sep 2000

The Society for Protective Coatings (SSPC)/NACE International
(NACE) Joint Surface Preparation Standard SSPC-SP 7/NACE No.4,
Brush-Off Blast Cleaning, 01 Sep 2000

The Society for Protective Coatings (SSPC)/NACE International
(NACE) Joint Surface Preparation Standard SSPC-SP 10/NACE No.2,
Near-White Blast Cleaning, 01 Sep 2000

The Society for Protective Coatings (SSPC), Surface Preparation
Specification No.11 (SSPC-SP 11), Power Tool Cleaning to Bare
Metal, 01 Sep 2000

The Society for Protective Coatings (SSPC)/NACE International
(NACE) Joint Surface Preparation Standard SSPC-SP 12/NACE No.5,
Surface Preparation and Cleaning of Steel and Other Hard
Materials by High- and Ultrahigh-Pressure Water Jetting Prior to
Recoating, 1995

The Society for Protective Coatings (SSPC)/NACE International (NACE) Joint Standard VIS 4/NACE No. 7, Guide and Visual Reference Photographs for Steel Cleaned by Waterjetting, July 2001

3. REQUIREMENTS

3.1 General.

3.1.1 Material receipt inspection. The Contractor shall ensure that all coatings or coating products are delivered to the job site in original and unopened containers, with the following information:

- Product name or number.
- Manufacturer.
- Batch number.
- Date of manufacture.
- Shelf life.
- Product data sheet or ASTM F718 sheet.
- Material safety data sheet (MSDS).
- Certificate of compliance (COC).

3.1.2 Material storage, handling, mixing, and application. The Contractor shall observe all paint manufacturers' recommended procedures, as well as the good painting practice recommendations outlined in SSPC Manual, Volume 1, Chapter 5.1 (Paint Application), for all aspects involving storage, handling, mixing, and application of paint materials. Ensure that ambient conditions (dew point, surface and air temperature, and relative humidity) are within the parameters recommended by the applicable paint manufacturers, during application and curing evolutions.

3.1.3 Personnel health and safety compliance. The Contractor shall comply with all Federal, state, and local occupational, safety, and health regulations applicable to surface preparation, removal and application of marine coatings; in addition, strictly adhere to all other safety measures recommended in the applicable material safety data sheets (MSDS), and in SSPC-PA Guide 3, to protect personnel at all times during all aspects of coating removal, mixing, handling, and application procedures.

3.1.4 Environmental protection compliance. The Contractor shall comply with all Federal, state, and local public safety and environmental protection regulations applicable to the following issues:

- Handling and disposal of spent abrasives and wastes generated during paint removal procedures.
- Protection of the air and waterways during blasting and coating application procedures.

3.1.5 Environmental condition control for painting. The Contractor shall avoid contract delays, while also ensuring for successful coating application, by providing suitable means to create and maintain ambient conditions, as recommended by the paint manufacturer.

3.1.6 Work site cleanliness. The Contractor shall take care to prevent contamination of prepared surfaces by materials, equipment, and personnel.

3.1.7 Protective covers. The Contractor shall provide suitable covers to seal off and protect all non-affected equipment, ship components, and adjacent spaces against contamination during surface preparation and coating procedures.

3.2 Surface preparation and coating particulars. The Contractor shall prepare and coat interior and exterior surfaces in accordance with the below-listed tables, as applicable, unless otherwise specified in a work item:

- Table IA (Exterior Coating Systems)
- Table IB (Interior Coating Systems)

3.2.1 Deviation for touch-ups or minor coating repairs. When touch-up coating is required in lieu of one hundred percent preservation, do the following, as applicable:

- Substitute power tool cleaning for abrasive blasting or water-jetting as the surface preparation method.
- Substitute epoxy or organic zinc primers for inorganic zinc primers.

3.2.2 Coating particulars. Ensure the following:

3.2.2.1 Sources for specified coatings. All coatings are procured from the sources listed in Table II (Coast Guard-Approved Coatings/Materials).

3.2.2.2 Contrasting colors. All coats in multi-coat systems, including stripe coats, are applied in contrasting colors.

3.2.2.3 Colors for undercoats and topcoats. Colors for undercoats and topcoats are as specified in the following tables, as applicable, unless specified otherwise in a work item:

- Table III (Top Coating Color For U/W Body, Boot-Top And Freeboard)
- Table IV (Color Scheme For Underwater Body (U/W Body) and Boot-Top Surfaces In Relation To Freeboard Top Coating Color)
- Table V (Top Coating Color For Exterior Miscellaneous Details and Fittings)
- Table VI (Colors For Interior Surfaces)
- Table VII (Piping System Identification Color Code)

3.3 General requirements during preservation. The Contractor shall accomplish the following:

3.3.1 Surface contaminant removal.

3.3.1.1 Pre-surface preparation. Before surface preparation has begun, remove surface contaminants which include, but may not be limited to soluble chlorides, by a fresh water pressure wash (1,000-2,000 psi). Remove all standing water, and allow surfaces to dry prior to commencing surface preparation. When fresh water wash is not possible or practical, remove surface contaminants by one or a combination of solvent cleaning methods in accordance with SSPC-SP 1.

3.3.1.2 Post-surface preparation. After surface preparation is completed, and before applying primer coating, remove surface contaminants by one or a combination of solvent cleaning methods in accordance with SSPC-SP 1.

3.3.2 Flash rusting and oxidation removal. Limit surfaces being preserved in size to an area that can be prepared and coated before flash rusting or oxidation occurs. Ensure that flash rusting is limited to tightly adherent "light" rust, in accordance with SSPC VIS 4(I)/NACE No.7, for surfaces that are prepared by water-jetting (see "Note 4" in section titled "Notes From Table IA"). For surfaces prepared by other methods, ensure

that all flash rusting or oxidation is removed, before applying the primer coat.

3.3.3 Stripe coating. After the primer coat has cured, brush-apply an un-thinned coat of the same primer paint over all edges, weld seams, cut-outs, foot/hand holds, non-flat mounting hardware, and areas of complex geometries; apply stripe coat at three mils wet film thickness (WFT), to extend outside the edge by approximately one inch.

NOTICE

Stripe coating is required during 100 percent surface preservation, but not during partial or touch-up preservation!

3.3.4 Feathering. Where prepared surfaces interface with existing non-affected coated surfaces, feather the coated surfaces into the prepared areas, to provide a smooth transition between existing and new coatings.

3.4 Critically-coated surfaces. For work involving one hundred percent preservation of "critically-coated surfaces", as defined in paragraph 5.1 (Critically-coated surfaces), the Contractor shall do the following:

3.4.1 Technical Representative. Obtain the services of a Technical Representative (Tech Rep), if specified in a work item, for each specified coating system, to supervise, provide technical expertise, and ensure proper surface preparation, mixing, application, and curing.

3.4.1.1 Qualifications. Ensure that the Tech Rep is professionally trained, at a minimum, to the National Association of Corrosion Engineers (NACE) Coating Inspector Session I (see section 5.4 (NACE Session I equivalent training requirements)), or equivalent. Submit a copy of the Tech Rep's qualifications to the COR, before work is begun.

3.4.1.2 Specific duties. Ensure that the Tech Rep performs the following duties, as applicable:

- Verify and approve the suitability of ambient conditions before surface preparation is begun, and before each coat of paint is applied.
- Inspect and approve final surface preparation, before application of primer coats.

- Supervise and approve coating system preparation and application procedures, including but not limited to: mixing and thinning, stripe coating application, spray techniques, and film thickness measurements and recordings.
- Determine ventilation requirements for tanks and other confined spaces.
- Determine when freshly coated surfaces have sufficiently cured, to allow for application of a subsequent coat, or to allow for immersed surfaces (tanks and underwater body surfaces) to be put back in service.

3.4.2 Surface profile. Upon completion of surface preparation, measure the surface profile of the bare surfaces, using replica tape and a micrometer, as described in Method C of ASTM D4417. Identify each reading with a number and write the surface profile measured in the space provided on the tape.

3.4.3 Water-soluble chlorides. Perform surface chloride checks randomly over the prepared surfaces (3 measurements per 100 square feet (sqft) over the first 500 sqft, and one measurement every 1000 sqft for the remainder of the surfaces), using the Bresle Cell Method specified in SSPC Manual, Volume 1, Chapter 6 (Inspection); or using a suitable commercially-available salt contamination meter. If any chloride measurement exceeds three micrograms per square centimeter for immersed applications or five micrograms per square centimeter per non-immersed applications, wash down the affected area, using fresh water at a pressure of 2000-3000 psi, paying particular attention to crevices, pits, welds, and reverse faces of beams. Remove all standing water and dry all affected areas, as applicable. Repeat testing and wash down procedures, until the chloride level has been reduced to the applicable level specified above.

NOTICE

Fresh water wash and chloride check are required for surfaces exposed to salt contaminants, including, but not limited to the following:

- **Underwater body hull surfaces and appendages**
- **Topside surfaces (freeboard, superstructure, mast, decks)**
- **Bilges and salt water ballast tanks**

3.4.4 Environmental control during tank preservation. To ensure proper application and curing of coatings during tank preservation, provide suitable air handling equipment from prior to abrasive blasting through final curing of the coating system, to accomplish the following:

- Maintain the prepared substrate at a temperature at least five degrees F. above the dew point.
- Provide suitable ventilation to maintain one complete air change every three minutes and a maximum of 50% relative humidity.

4. QUALITY ASSURANCE

4.1 Coating inspection. The Contractor shall inspect each paint coat to ensure that there are no pinholes, misses, skips, runs, sags, overspray, underspray, dryspray, or other visible paint defects that will affect the performance of the coating system. Repair all defects.

4.2 Documentation deliverables.

4.2.1 Technical data and material safety data sheets. The Contractor shall submit to the COR all technical data sheets and material safety data sheets (MSDS) for all procured coatings and coating-related chemicals and materials, before work is begun.

4.2.2 Quality Assurance Inspection Forms.

4.2.1.1 During preservation, excluding touch-ups, the Contractor shall complete the Quality Assurance (QA) Inspection Forms provided at the end of this document for the below-listed tasks. Submit all completed forms to the COR upon completion of work.

- Environmental/ambient conditions every 4 hours during all surface preparation and coating application procedures, until final cure.
- Surface soluble chloride levels.
- Surface profile readings.
- Wet Film Thickness Measurements.

4.2.1.2 Additionally, the Contractor shall ensure that the Tech Rep completes and submits the QA inspection form titled "Tech

Rep Sign Off Log", to record the duration of the Tech Rep's presence at the work site.

4.2.3 Coating Inspector written approvals. When a Tech Rep is provided (see 3.4.1 (Technical Representative)), the Contractor shall obtain a written and signed report from the Tech Rep, for each duty performed (see 3.4.1.2 (Specific duties)). Submit the reports to the COR within 48 hours upon completion of work.

4.3 Requirements for acceptance of systems proposed as equivalent to specified named brands. The Contractor shall be aware that products acceptable to the Government are not limited to the brand named products listed under the "Generic/Commercial Class" category in Table II (Coast Guard-Approved Coatings/Materials), for specified applications. Other generic/commercial products, proposed as equivalent to the specified named brands may be considered, provided that they meet the criteria specified below.

4.3.1 General characteristics. All proposed coatings or coating-related products shall, in general, have a volatile organic compound (VOC) content of no more than 340 grams/liter (2.8 pounds/gallon), and not contain the following hazardous substances:

- Lead in excess of 0.06% by weight in the dry paint film.
- Coal-tar derivatives.
- Hexavalent chromium compounds, such as zinc chromate.
- Organotin compounds, such as tributyl tin (TBT).
- Asbestos.
- Free isocyanates.

4.3.2 Essential characteristics of specified brands.

4.3.2.1 Adhesion Promoter/Cleaner. A product proposed as equivalent to the "Adhesion Promoter/Cleaner" specified herein shall have the following essential characteristics:

- Water-based cleaner, formulated for use in preparation for painting, and for use on fiberglass and closed-cell polyvinyl chloride (PVC) insulation, painted and plastic surfaces, and bare metal.
- Promotes adhesion between substrate and paint and between coats of paint.
- Contains no phosphates, halogens, chlorinated solvents or petroleum distillates, and is biodegradable.
- Leaves no residue when rinsed with fresh water.

4.3.2.2 Anti-Abrasion coating for icebreaking vessels. A coating proposed as equivalent to the "Anti-Abrasion" coatings specified herein shall, in general, be a coating with extremely high resistance to abrasion, intended for use on the bow and forward portions of icebreaking vessels, and is suitable for use in salt and fresh water environments. It shall have the following essential characteristics:

- Proven record (at least three years) of usage as an underwater coating for non-polar icebreakers.
- Abrasion resistant, anti-corrosive epoxy, with a minimum of 50% solids.
- Available in a minimum of two colors, one of which must be red.
- Applicable in a minimum of two coats, with a total thickness of not less than 14 mils mean dry film thickness.
- Abrasion resistance, Taber (ASTM D4060, 1 kg, CS-17 wheel): 50 mg weight loss max.
- Adhesion, Elcometer (ASTM D4541): 1000 psi min.

4.3.2.3 Antifoulant, Non-copper. A coating proposed as equivalent to the "Antifoulant, Non-Copper" system specified herein shall have the following essential characteristics:

- Contains biocides for prevention of marine growth, and is compatible with aluminum hulls.
- Has an EPA registration.
- Contains no materials that can cause galvanic corrosion of aluminum.
- Has a proven record (at least two years) of use as an underwater aluminum hull coating system.
- Has equal or better resistance to mechanical damage from blunt objects than conventional antifouling systems.

4.3.2.4 Epoxy Polysiloxane. A coating system proposed as equivalent to the "Epoxy Polysiloxane" system specified herein shall have the following essential characteristics:

- Durable coating with high gloss and color retention that is used as the topcoat for exterior applications
- Can be applied to bare or primed steel, galvanized steel, aluminum, epoxy primer, organic zinc primer, and inorganic zinc silicate primer.
- Can be applied by brush, roller, or spray.
- Elongation (ASTM D522): 10% minimum.

- Impact resistance (ASTM D2794): 100 inch-pounds min.
- Adhesion (Elcometer, ASTM D4541): 2000 psi min.
- Taber Abrasion (ASTM D4060, CS-17 wheel, 1 kg load, 1000 cycles): 50 mg max.
- 60° Gloss retention (2000 hrs QUV): 10 gloss units max.
- Color change (1000 hours QUV): 3 CIELAB units max.

4.3.2.5 Fouling Release System. A coating system proposed as equivalent to the "Fouling Release system" specified herein shall have the following essential characteristics:

- A nontoxic coating for boat hulls that resists attachment of fouling, has a low-energy surface, and its primary mechanism for releasing fouling does not rely on dissolving, polishing, eroding, or reducing in thickness.
- Does not require registration by EPA.
- Easily cleaned by low pressure washing (<1000 psi) or by light wiping with sponges or soft cloth.
- Has proven to release at least 80% of fouling, accumulated and settled over a 30-day period in subtropical waters, when exposed to flowing seawater at 22 knots for 30 minutes.

4.3.2.6 High Build Epoxy. A coating proposed as equivalent to the "High Build Epoxy" coatings specified herein shall be a two-component epoxy coating, intended for general use. It shall be either qualified for use as an all-purpose high-performance coating under MIL-PRF-23236, or as an anti-corrosive coating under MIL-PRF-24647.

4.3.2.7 High Turbulence Coating. A coating proposed as equivalent to the "High Turbulence" coatings specified herein shall have the following essential characteristics:

- Coating that resists removal under turbulent conditions and which is used as a topcoat to protect against cavitation erosion on appendages of the underwater body of ships, especially structures aft of the propeller such as the rudder, struts and fins.
- Proven record (a minimum of three years) of use as a coating system for high turbulent/cavitation-prone surfaces.
- Maximum rate of cavitation erosion (modified ASTM G32): 40 micrometers/hour.
- Nominal incubation time (modified ASTM G32): 30 minutes minimum.

4.3.2.8 Inorganic Zinc. A coating proposed as equivalent to the "Inorganic Zinc" coatings specified herein shall have the following essential characteristics:

- A self-curing, inorganic zinc-rich primer for use on suitably prepared steel surfaces.
- Protects steel galvanically and halts sub-film corrosion.
- When damaged, continues to protect the underlying steel by cathodic protection.
- Able to withstand severe weather conditions and aggressive exposures.
- May be top-coated or used without topcoat, for instance, on buoy decks.
- Must be able to cure at a relative humidity down to 50%.
- Metallic zinc content: 80% minimum by weight in dry film.
- Adhesion (ASTM D4541): 1000 psi min.
- Flexibility: No cracks when bent 180° over a 1-inch mandrel.
- Impact resistance (ASTM D2794): 60 inch-pounds min.
- Available in gray or green.

4.3.2.9 Inorganic Zinc, Modified. A coating proposed as equivalent to the "Inorganic Zinc, Modified" coatings specified herein shall have the following essential characteristics:

- A self-curing, inorganic zinc-rich primer for use on suitably prepared steel surfaces.
- Protects steel galvanically and halts sub-film corrosion.
- When damaged, continues to protect the underlying steel by cathodic protection.
- Able to withstand severe weather conditions and aggressive exposures.
- Surface tolerance: Manufacturer will warrant performance on surfaces cleaned by water-jet to WJ-2 and SC-2 standards.
- Must be top-coated.
- Must be able to cure at a relative humidity down to 50%.
- Metallic zinc content: 50% minimum by weight in dry film.
- Adhesion (ASTM D4541): 1000 psi min.
- Flexibility: No cracks when bent 180° over a 1-inch mandrel.
- Impact resistance (ASTM D2794): 60 inch-pounds min.

4.3.2.10 Organic Zinc. A coating proposed as equivalent to the "Organic Zinc" coatings specified herein shall have the following essential characteristics:

- Epoxy-type anticorrosive primer for use on properly-prepared steel surfaces exposed to severe industrial or marine environments.
- Applicable by brush, roller, or spray.
- Metallic zinc content: 80% by weight minimum in dry film.
- Adhesion (ASTM D4541): 1000 psi min.
- Flexibility: No cracks when bent 180° over a 1-inch mandrel.
- Impact resistance (ASTM D2794): 60 inch-pounds min.
- Surface tolerance: Manufacturer will warrant performance on surfaces cleaned by water-jet to WJ-2 and SC-2 standards.

4.3.2.11 Potable Water Tank Coating. A coating proposed as equivalent to the potable water tank coating specified herein shall have the following essential characteristics:

- An epoxy-type coating suitable for use in tanks and pipes that contain drinking water, and suitable for use in food processing facilities.
- Certified to meet the current National Primary and Secondary Drinking Water Regulations issued by the US Environmental Protection Agency, or
- Certified by the Naval Environmental Health Center (NEHC), Norfolk, VA or by NSF International (formerly the National Sanitation Foundation), Ann Arbor, MI., or
- Certified to ANSI/NSF Std 61 (Material extracted by drinking water).
- Adhesion (ASTM D4541): 500 psi minimum.
- Abrasion resistance (ASTM D4060, CS 17 wheel, 1 kg weight, 1000 cycles): 200 mg maximum.
- Chemical resistance (ASTM D714): No deterioration in 20% sodium hydroxide, 3% sodium chloride, 3% sulfuric acid, and gasoline (nonmethanol).

4.3.2.12 Slip Resistant Sheets. A product proposed as equivalent to the slip resistant sheets specified herein shall have the following essential characteristics:

- Slip resistance is provided by sheets of abrasive particles held in a tough, durable binder to a film backing.
- Reverse side is covered with a pressure-sensitive adhesive and a removable protective liner.
- Self-adhesive sheets are used with an edge sealer on suitably primed steel or aluminum exterior surfaces on cutters and boats, to provide traction to men and equipment under wet and dry conditions.
- Color: Black.
- Adhesion (MIL-PRF-17951).
- Shear strength (7 days aging): 10 pounds minimum.
- Strip strength: 0.75 pounds minimum.
- Minimum coefficient of friction (MIL-PRF-17951)
 - Static (Rubber): 1.2 dry, 1.2 wet, 0.9 oily
 - Static (Leather): 1.1 dry, 1.1 wet
 - Dynamic (Rubber): 1.2 dry, 1.2 wet, 0.8 oily
 - Dynamic (Leather): 0.9 dry, 1.1 wet

- Service Life: 30 months
- Proven record (a minimum of two years) of use as a slip resistant system for ship/boat weather decks operating in rough ocean seas.

5. NOTES

5.1 Critically-coated surfaces. Critically-coated surfaces are defined as follows:

- Underwater body surfaces.
- Freeboard.
- Superstructure.
- Exterior decks.
- Tanks and Voids.
- All surfaces exposed to salt contamination.

5.2 Containment methods. Dust-containing methods include, but are not limited to the following:

- Total or mini enclosures.
- Use of surface preparation tools equipped with vacuum attachments.
- Water interjection into abrasive stream during abrasive blasting.

5.3 Procedures for inclusion of new coatings on Federal/Military Qualified Product Listings (QPL) and U.S Coast Guard Authorized Coatings list.

5.3.1 Federal/Military QPL. Manufacturers/suppliers seeking to qualify and list their products on a Federal, Military, or Department of Defense QPL may contact the U.S. Navy at the following address:

Naval Sea Systems Command, SEA 03R42
2531 Jefferson Davis Hwy
Arlington, VA 22242

5.3.2 Coast Guard Authorized Coatings List. All inquiries from manufacturers/suppliers to include their products on the Coast Guard list of recommended coatings shall be directed to the Office of Naval Engineering (G-SEN). The address is:

Commandant (G-SEN)
United States Coast Guard
2100 Second Street S.W.
Washington, DC 20593

5.3.2.1 Required documentation. All inquiries from manufacturers shall include:

- A letter request, naming a point of contact within the company. Requests shall be for complete systems from the substrate to the topcoat.
- A brief description of the system, e.g., the intended use of the coating system, the number of separate coatings, and for each coating its name, chemical type, requirements for surface preparation, mixing, application, and thickness, and the minimum and maximum times for drying, intervals between coats, and recoating.
- A Product Data Sheet for each of the components of the coating.
- A Material Safety Data Sheet for each of the components of the coating.
- Other federal approvals of the system or its components, such as mil spec. QPL, U. S. Maritime Administration (MARAD), or Military Sealift Command (MSC).
- Additional relevant information, such as state and local approvals and certifications, and results of laboratory and accelerated tests.

5.3.2.2 General requirements. The following are general requirements for coatings in Coast Guard service.

- EPA registration for antifouling coatings.
- Approval from the Naval Environmental Health Center (NEHC), Norfolk, VA or from NSF International (formerly the National Sanitation Foundation), Ann Arbor, MI for potable water tank coatings.
- Volatile Organic Content (VOC) limits of 400 grams/Liter for antifouling coatings and 340 g/L for all other coatings.

5.3.2.3 Banned substances. See 4.3.1 (General characteristics).

5.3.2.4 Laboratory testing requirements. Manufacturers are advised that laboratory testing and related expenses shall be the manufacturers' responsibility. The Coast Guard reserves the right to send a representative to any test site to inspect test panels, test setups, test equipment, data sheets, etc. at any time during test periods.

5.3.2.5 Coast Guard notice. Written notice of new acceptable products will be sent to the requesting manufacturer, the Maintenance and Logistics Commands, and will be incorporated into the next revision of this specification. Manufacturers are advised that product listings are subject to change, should it be determined that the products are not performing satisfactorily to specification requirements.

5.3.2.6 Approval for reformulated products. When a manufacturer reformulates a product previously approved by the Coast Guard, the manufacturer shall submit, in addition to the data stipulated in section 5.3.2.1 (Required documentation) above, a letter explaining what has been changed and the reasons for the change. The Coast Guard will determine what steps will be necessary to extend approval. A reformulated coating must have a different product name or number than the originally approved product.

5.3.2.7 Approval for renamed products. When a manufacturer renames a product previously approved by the Coast Guard, and the change is in name or number only, not composition, the Coast Guard will extend approval to the product under its new name, provided that the manufacturer does the following:

- Submits written notification to the Coast Guard of the change in name or number.
- Warrants that the formulation has not changed.
- Submits the data required in section 5.3.2.1 (Required documentation).

5.4 NACE Session I equivalent training requirements.

Demonstrated minimum sixty hours of instruction and industry practice of the basic technology of coating application and inspection. Topics included in Session I of the NACE Coating Inspector Certification Curriculum are as follows:

- Basic corrosion mechanisms, effects of environments, methods of corrosion control, and importance of protective coatings and linings.
- Considerations for coating inspection including coating applications, records and reports, importance of the pre-job conference, working with others to get the job done, and coating inspection ethics.

- Surface preparation and spray application.
- Equipment and inspection criteria and safety.
- Inspection tools and tests.
- Protective coating concepts including types of primers, importance of correct coating thickness, pigments, solvents, common inspection criteria and failure modes, and common curing mechanisms.
- Types of protective coatings and inspection criteria. Causes and types of coating failures.

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TABLE IA. EXTERIOR COATING SYSTEMS

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Approved Materials)	DFT (mils)	Notes
ANCHOR/ANCHOR CHAIN					
		SSPC-SP 6/NACE NO. 3, using grit conforming to MIL-A-22262 / (1.5-3.5)	1) Epoxy Polysiloxane 2) Epoxy Polysiloxane 3) Epoxy Polysiloxane	Mist Coat 5.0-6.0 5.0-6.0	1, 2
ANTENNA HARDWARE, RADIO AND RADAR, DF LOOPS					
Steel		SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) [metal hardware only]	1) High Build Epoxy 2) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	5.0-6.0 2.0-3.0	2
Fiberglass		Sand lightly with 120 grit paper to break the glaze and roughen the surface then wash with Adhesion Promoter/Cleaner. On new material, remove mold release by washing with cleaner before sanding and clean again.	1) High Build Epoxy 2) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	Mist Coat 2.0-3.0	2
ELECTRIC CABLES, ARMORED, EXTERIOR					
	I	Clean with Adhesion Promoter/Cleaner. Break gloss with sandpaper as required.	1) Epoxy Polysiloxane 2) Epoxy Polysiloxane	5.0-6.0 2.0-3.0	2, 3
	II	Same as Option I	1) High Build Epoxy (dip the cable) 2) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	5.0-6.0 2.0-3.0	2, 3

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Approved Materials)	DFT (mils)	Notes
FITTINGS					
Bulkhead And Deck Fittings, Including Pad Eyes, Links, Chain Stoppers...		<p><u>Steel</u>: SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)</p> <p>- or -</p> <p>SSPC-SP 11 (1.0)</p> <p><u>Aluminum</u>: Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5)</p> <p>-or-</p> <p>Power tool clean, using non-metallic abrasive padding, to remove all coatings and contamination</p>	Use the same coating system as for surfaces onto which fittings are attached (for deck fittings: omit non-skid aggregate).		10
FLIGHT DECK					
	I	<p>SSPC-SP 10/NACE NO. 2, using steel shot conforming to SAE-AMS 2431A or grit conforming to MIL-A-22262 / (3.0-4.5)</p> <p>- or -</p> <p>SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-1")</p>	<p>1) MIL-PRF-24667 Primer</p> <p>2) MIL-PRF-24667 Type II, Comp. G Non-skid (UV-Resistant//Low Solar Absorbing Epoxy)</p>	See Manuf. Instructions	4, 5,
	II	Same as Option I	<p>1) MIL-PRF-24667 Primer</p> <p>2) MIL-PRF-24667 Type I, Comp. G Non-skid</p>	See Manuf. Instructions	4, 5

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Approved Materials)	DFT (mils)	Notes
FREEBOARD/SUPERSTRUCTURE/MAST					
Freeboard/ Superstructure, Mast, Steel	I	SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-2.5) - or - SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2")	1) Inorganic Zinc, Modified 2) Epoxy Polysiloxane 3) Epoxy Polysiloxane	3.0-4.0 Mist Coat 5.0-6.0	2, 6, 7, 8, 9, 10 2, 6, 7, 8, 9, 10
	II	SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-2.5)	1) Inorganic Zinc 2) High Build Epoxy 3) High Build Epoxy 4) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	2.5-3.5 Mist Coat 5.0-6.0 2.0-3.0	2
	III	SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) - or - SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2")	1) High Build Epoxy 2) High Build Epoxy 3) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	5.0-6.0 5.0-6.0 2.0-3.0	
Freeboard/ Superstructure, Mast, Aluminum and Galvanized Steel	I	Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5) - or - SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2") -or- Power tool clean, using non-metallic abrasive padding, to remove all coatings and contamination	1) Epoxy Polysiloxane 2) Epoxy Polysiloxane	1.0-2.0 5.0-6.0	2
	II	Same as Option I	1) High Build Epoxy 2) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	5.0-6.0 2.0-3.0	2

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Approved Materials)	DFT (mils)	Notes
FREEBOARD/SUPERSTRUCTURE/MAST (Continued)					
Freeboard/ Superstructure, (FRP - Fiber Reinforced Plastic, including epoxy or polyester)	I	Sand lightly with 120 grit paper to break the glaze and roughen the surface then wash with Adhesion Promoter/Cleaner. On new material, remove mold release by washing with cleaner before sanding and clean again.	1) Epoxy Polysiloxane 2) Epoxy Polysiloxane	Mist Coat 3.0-4.0	2, 8
	II	Same as Option I	1) High Build Epoxy 2) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	Mist Coat 2.0-3.0	2
MACHINERY EXPOSED TO WEATHER					
	I	SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-2.5) -or- SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2")	1) Inorganic Zinc, Modified 2) Epoxy Polysiloxane 3) Epoxy Polysiloxane	3.0-4.0 Mist Coat 5.0-6.0	2, 6, 7, 8, 9, 10, 12 2, 6, 7, 8, 9, 10, 12
	II	SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-2.5)	1) Inorganic Zinc 2) High Build Epoxy 3) High Build Epoxy 4) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	2.5-3.5 Mist Coat 5.0-6.0 2.0-3.0	2
	III	Same as Option I	1) High Build Epoxy 2) High Build Epoxy 3) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	5.0-6.0 5.0-6.0 2.0-3.0	

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Approved Materials)	DFT (mils)	Notes
PIPING EXPOSED TO WEATHER					
Steel	I	SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) - or - SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2")	1) Epoxy Polysiloxane 2) Epoxy Polysiloxane	5.0-6.0 5.0-6.0	2
	II	Same as Option I	1) High Build Epoxy 2) High Build Epoxy 3) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	5.0-6.0 5.0-6.0 2.0-3.0	2
Aluminum and other non-ferrous metals	I	Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5) - or - SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2")	1) Epoxy Polysiloxane 2) Epoxy Polysiloxane	1.0-2.0 5.0-6.0	2
	II	Same as Option I	1) High Build Epoxy 2) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	5.0-6.0 2.0-3.0	2
SMOKE STACK					
Smoke Stack Casing, Steel Exterior		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-2.5)	1) Inorganic Zinc 2) High Build Epoxy 3) High Build Epoxy 4) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	2.5-3.5 Mist Coat 5.0-6.0 2.0-3.0	2, 6, 8, 9, 10
Smoke Stack Casing, Aluminum Exterior		Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5) -or- SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2")	1) High Build Epoxy 2) High Build Epoxy 3) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	5.0-6.0 5.0-6.0 2.0-3.0	2

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Approved Materials)	DFT (mils)	Notes
SMOKE STACK (Continued)					
Smoke Stack Casing, Steel and Aluminum Interior (containing insulated exhaust piping)		<p><u>Steel</u>: SSPC-SP 6/NACE N2. 3, using grit conforming to MIL-A-22262 / (1.0-2.0)</p> <p><u>Aluminum</u>: Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5)</p>	<p>1) TT-P-28 Heat Resisting Aluminum Paint</p> <p>2) TT-P-28 Heat Resisting Aluminum Paint</p>	<p>1.0-2.0</p> <p>1.0-2.0</p>	
Smoke Stack Exterior Within Casing		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)	<p>1) High Build Epoxy</p> <p>2) High Build Epoxy</p>	<p>5.0-6.0</p> <p>5.0-6.0</p>	
SPUDS AND SPUD WELLS					
Spud Surfaces	I	SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)	<p>1) Epoxy Polysiloxane</p> <p>2) Epoxy Polysiloxane</p>	<p>5.0-6.0</p> <p>5.0-6.0</p>	2, 11, 13
	II	Same as Option I	<p>1) High Build Epoxy</p> <p>2) High Build Epoxy</p> <p>3) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1</p>	<p>5.0-6.0</p> <p>5.0-6.0</p> <p>2.0-3.0</p>	2, 11, 13
Spud Wells (Surfaces in way of spud well liners)		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)	High Build Epoxy	5.0-6.0	
TRANSDUCER HULL RINGS					
Exterior surfaces		Same surface preparation as the rest of the Underwater Body Surfaces	Use the same coating system as the rest of the Underwater Body Surfaces		

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	DFT (mils)	Notes
UNDERWATER (U/W) BODY/BOOT-TOP					
U/W Body and Boot-Top, Steel Hulls, in Salt Water	I	SSPC-SP 12 /NACE No.5 (To WJ-4" and "SC-1". Continue washing until AF leaching layer has been removed.	MIL-PRF-24647 Copper Ablative, Type I, Class 1, (1-3 coats) not to exceed a total AF coating DFT of 18 mils over the boot-top areas and 12 mils over rest of u/w body surfaces, and to match existing color scheme.	-	16, 19, 22, 26
	II	SSPC SP-7/NACE No. 4 -or- SSPC-SP 12 /NACE No.5 (To WJ-4" and "SC-1"	1) MIL-PRF-24647 Anti-corrosive Epoxy (1-2 coats) not to exceed a total AC undercoating DFT of 10 mils and to match existing color scheme	5.0-6.0	15, 16, 17, 18, 21, 22
			2) MIL-PRF-24647 Copper Ablative, Type I, Class 1A	5.0-6.0	
			3) MIL-PRF-24647 Copper Ablative, Type I, Class 1A	5.0-6.0	15, 16, 17, 18, 21,22, 27
			4) MIL-PRF-24647 Copper Ablative, Type I, Class 1A (Boot-Top only)	5.0-6.0	
	III	SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) - or - SSPC-SP 12/NACE No. 5 (To "WJ-2" And "SC-1")	1) MIL-PRF-24647 Anti-corrosive Epoxy	5.0-6.0	
2) MIL-PRF-24647 Anti-corrosive Epoxy			5.0-6.0		
3) MIL-PRF-24647 Copper Ablative, Type I, Class 1A			5.0-6.0		
		4) MIL-PRF-24647 Copper Ablative, Type I, Class 1A	5.0-6.0		
		5) MIL-PRF-24647 Copper Ablative, Type I, Class 1A (Boot-top only)	5.0-6.0		

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	DFT (mils)	Notes
UNDERWATER (U/W) BODY/BOOT-TOP (Continued)					
U/W Body and Boot-Top, Steel Hulls, in Fresh Water (Excepted Sea Chests, Sea Chest Strainer Plates, Grid Cooler Hull Recesses for WLR River Tenders and Barges)	I	SSPC-SP 12 /NACE No.5 (To WJ-4" and "SC-1")	MIL-PRF-24647 Anti-corrosive Epoxy not to exceed a total AC undercoating DFT of 15 mils over the boot-top areas (if applicable) and 10 mils over rest of u/w body surfaces, and to match existing color scheme.	-	16, 22
	II	SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) - or - SSPC-SP 12/NACE No. 5 (To "WJ-2" And "SC-1")	1) MIL-PRF-24647 Anti-corrosive Epoxy 2) MIL-PRF-24647 Anti-corrosive Epoxy 3) MIL-PRF-24647 Anti-corrosive Epoxy (Boot-top only)	5.0-6.0 5.0-6.0 5.0-6.0	16, 18, 20, 21, 22, 27
U/W Body and Boot-Top, Icebreaker, in Fresh Water (Excluding Sea Chests)	I	SSPC-SP 12 /NACE No.5 (To WJ-4" and "SC-1")	Anti-Abrasion Coating for Icebreaking vessels (1-3 coats) not to exceed the manufacturer's total recommended DFT and to match existing color scheme	-	22
	II	SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) - or - SSPC-SP 12/NACE No. 5 (To "WJ-2" And "SC-1")	1) Anti-Abrasion Coating for Icebreaking vessels 2) Anti-Abrasion Coating for Icebreaking vessels 3) Anti-Abrasion Coating for Icebreaking vessels (Boot-top only)	Follow Manuf. Instructions	16, 18, 20, 21, 22, 27

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	DFT (mils)	Notes
UNDERWATER (U/W) BODY/BOOT-TOP (Continued)					
U/W Body and Boot-Top, Icebreaker, in Salt Water	I	SSPC-SP 12 /NACE No.5 (To WJ-4" and "SC-1")	MIL-PRF-24647 Copper Ablative, Type I, Class 1A (1-3 coats) not to exceed a total AF coating DFT of 18 mils over the boot-top areas and 12 mils over rest of u/w body surfaces, and to match existing color scheme.	-	16, 19, 22, 26
	II	SSPC SP-7/NACE No. 4 -or- SSPC-SP 12 /NACE No.5 (To WJ-4" and "SC-1")	1) Anti-Abrasion Coating for Icebreaking vessels (1-2 coats) not to exceed the manufacturer's total recommended DFT and to match existing color scheme 2) MIL-PRF-24647 Copper Ablative, Type I, Class 1A 3) MIL-PRF-24647 Copper Ablative, Type I, Class 1A 4) MIL-PRF-24647 Copper Ablative, Type I, Class 1A (Boot-top only)	-	8, 15
		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) - or - SSPC-SP 12/NACE No. 5 (To "WJ-2" And "SC-1")	1) Anti-Abrasion Coating for Icebreaking vessels 2) Anti-Abrasion Coating for Icebreaking vessels 3) MIL-PRF-24647 Copper Ablative, Type I, Class 1A 4) MIL-PRF-24647 Copper Ablative, Type I, Class 1A 5) MIL-PRF-24647 Copper Ablative, Type I, Class 1A (Boot-top only)	-	8, 27

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	DFT (mils)	Notes
UNDERWATER (U/W) BODY/BOOT-TOP (Continued)					
U/W Body and Boot-Top, Aluminum Hull	I	Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5) - or - SSPC-SP 12/NACE No. 5 (To "WJ-2" and "SC-1")	1) MIL-PRF-24647 Anti-corrosive Epoxy 2) MIL-PRF-24647 Anti-corrosive Epoxy 3) Antifoulant, Non-copper, Gray 4) Antifoulant, Non-copper, White 5) Antifoulant, Non-copper, White 6) Antifoulant, Non-copper, Black (Boot-Top only) 7) Antifoulant, Non-copper, Black (Boot-Top only)	5.0-6.0 5.0-6.0 3.0-4.0 3.0-4.0 3.0-4.0 3.0-4.0 3.0-4.0	16, 18, 22, 24, 27 22, 23, 27
	II	Same as Option I	1) Anti-corrosive coat 2) Anti-corrosive coat 3) Tie coat 4) Foul-release topcoating	Follow Manuf. Instructions	
U/W Body and Boot-Top, Aluminum Hull (in waters with limited fouling)	I	SSPC-SP 12 /NACE No.5 (To WJ-4" and "SC-1" (in conjunction with underwater body surface cleaning, as specified in drydocking specification).	MIL-PRF-24647 Anti-corrosive Epoxy not to exceed a total AC undercoating DFT of 15 mils over the boot-top areas (if applicable) and 10 mils over rest of u/w body surfaces, and to match existing color scheme.		16, 22
	II	Brush blast to bare metal with clean, very fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I / (1.0-1.5) -or- SSPC-SP 12 /NACE No.5 (To WJ-4" and "SC-1"	1) MIL-PRF-24647 Anti-corrosive Epoxy 2) MIL-PRF-24647 Anti-corrosive Epoxy	5.0-6.0 5.0-6.0	16, 18, 21, 22, 27
U/W Body and Boot-Top, Fiber Glass Hulls in Salt Water		Roughen surface with 120 grit paper and wash with Adhesion Promoter/Cleaner. On new surfaces, remove mold release with a cleaner, sand and clean again.	1) MIL-PRF-24647 Anti-corrosive Epoxy 2) MIL-PRF-24647.Copper Ablative, Type I, Class 1A 3) MIL-PRF-24647 Copper Ablative, Type I, Class 1A	Mist Coat 4.0-5.0 4.0-5.0	8, 16, 18, 21, 25, 26,

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	DFT (mils)	Notes
UNDERWATER (U/W) BODY APPENDAGES					
U/W Body Appendages: High Turbulent Areas (i.e., Rudders, Struts, Fins for 110 WPBs)		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) - or - SSPC-SP 12/NACE No. 5 (To "WJ-2" and "SC-1")	1) High Turbulence Coating 2) High Turbulence Coating 3) Follow with same number coats of antifoulant used for the rest of the underwater body	10.0-11.0 10.0-11.0 -	
U/W Body Propellers		<u>Cast Steel and Cast Iron:</u> Treat the same as Underwater Body Appendages <u>All Other Materials:</u> Clean and polish bright	- Do not paint -		
Shaft, Corrosion Resistant Materials (such as Aquamet)		Clean and polish metallic surfaces bright.	- Do not paint-		
Shaft Covered W/FRP - Fiber Reinforced Plastic, including epoxy or polyester		Roughen surface with 120 grit paper and wash with Adhesion Promoter/Cleaner. On new surfaces, remove mold release with a cleaner, sand and clean again.	Apply same antifouling coating system as the rest of the underwater body Surfaces		
All Other Materials		Use the Same Surface Preparation As U/W Body Surfaces	Apply same antifouling coating system as the rest of the underwater body		
U/W Body Sea Chests, Icebreaker in Fresh Water		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-2.5)	Inorganic Zinc	2.5-3.5	9
U/W Body Sea Chests, Sea Chest Strainer Plates, Grid Cooler Hull Recesses in Fresh Water (for WLR River Tenders and Barges)		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-2.5)	1) MIL-PRF-24647 Anti-corrosive Epoxy 2) MIL-PRF-24647 Copper Ablative, Type I, Class 1, Grade B 3) MIL-PRF-24647 Copper Ablative, Type I, Class 1, Grade B	Mist Coat 4.0-5.0 4.0-5.0	8, 18, 25

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	DFT (mils)	Notes
WEATHER DECKS					
Weather Deck Non-Skid, Steel	I	SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-2.5) - or - SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2")	1) Inorganic Zinc, Modified 2) Epoxy Polysiloxane 3) Epoxy Polysiloxane 4) #8-16 Garnet or grit conforming to MIL-A-22262 5) Epoxy Polysiloxane	3.0-4.0 Mist Coat 5.0-6.0 - 5.0-6.0	6, 7, 8, 9, 10, 28 6, 7, 8, 9, 10, 28
	II	SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-2.5)	1) Inorganic Zinc 2) High Build Epoxy 3) High Build Epoxy 4) #8-16 Garnet or grit conforming to MIL-A-22262 5) MIL-PRF-24635 Silicone Alkyd, Type II, Class I	3.0-4.0 Mist Coat 5.0-6.0 - 2.0-3.0	28
	III	Same as Option I	1) High Build Epoxy 2) High Build Epoxy 3) #8-16 Garnet or grit conforming to MIL-A-22262 4) MIL-PRF-24635 Silicone Alkyd, Type II, Class I	5.0-6.0 5.0-6.0 - 2.0-3.0	29, 30, 31 29, 30, 31
	IV	Same as Option I	1) MIL-PRF-24667 Primer 2) MIL-PRF-24667 Type I or II Comp. G Non-skid	See Manuf. Instructions	29, 30, 31
	V	Same as Option I	1) MIL-PRF-24667 Primer 2) MIL-PRF-24667 Type II (UV-Resistant//Low Solar Absorbing Epoxy), Comp. G Non-skid	See Manuf. Instructions	29, 30, 31
	VI	Same as Option I	1) MIL-PRF-24667 Primer 2) MIL-PRF-24667 Type IV (Sprayable), Comp. G Non-skid	See Manuf. Instructions	
	VII	Same as Option I	1) MIL-PRF-24667 Primer 2) MIL-PRF-24647 Type III, Flexible Epoxy Membrane/Underlayment	See Manuf. Instructions	

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	DFT (mils)	Notes
WEATHER DECKS (Continued)					
Weather Deck Non-Skid, Aluminum	I	Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5) - or - SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2")	1) Epoxy Polysiloxane 2) Epoxy Polysiloxane 3) #8-16 Garnet or grit conforming to MIL-A-22262 4) Epoxy Polysiloxane	Mist Coat 5.0-6.0 - 2.0-3.0	28
	II	Same as Option I	1) High Build Epoxy 2) High Build Epoxy 3) #8-16 Garnet or grit conforming to MIL-A-22262 4) MIL-PRF-24635 Silicone Alkyd, Type II, Class	5.0-6.0 5.0-6.0 - 2.0-3.0	28 -
	III	Same as Option I	1) MIL-PRF-24667 Primer 2) MIL-PRF-24667 Type I or II Comp. G Non-skid	See Manuf. Instructions	28
	IV	Same as Option I	1)MIL-PRF-24667 Primer 2) MIL-PRF-24667 Type II (UV-Resistant//Low Solar Absorbing Epoxy), Comp. G Non-skid	See Manuf. Instructions See Manuf. Instructions	- -
	V	Same as Option I	1)MIL-PRF-24667 Primer 2) MIL-PRF-24667 Type IV (Sprayable), Comp. G Non-skid	See Manuf. Instructions	-
	VI	Same as Option I	1) MIL-PRF-24667 Primer 2).MIL-PRF-24647 Type III, Flexible Epoxy Membrane/Underlayment 3) MIL-PRF-24667 Type III (UV-Resistant//Low Solar Absorbing Epoxy), Comp. G Non-skid	See Manuf. Instructions	-

TABLE IA. EXTERIOR COATING SYSTEMS (Continued)

Exterior Surfaces to be Preserved	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	DFT (mils)	Notes
WEATHER DECKS (Continued)					
Weather Deck, Steel (Slip Resistant Sheets for 47 MLB and 87 WPB Boats)		Steel: SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-2.5) - or - SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2")	1) Inorganic Zinc 2) Epoxy Polysiloxane 3) Epoxy Polysiloxane 4) Slip Resistant Sheet 5) Edge Sealing Compound	2.5-3.5 Mist Coat 5.0-6.0 -	6, 7, 8, 32
Weather Deck, Aluminum (Slip Resistant Sheets for 41 UTB Boats)		Abrasive blast with glass bead conforming to SAE AMS 2431/6 #AGB-18	1) Slip Resistant Sheet Primer 2) Slip Resistant Sheet 3) Edge Sealing Compound		32
Weather Deck, Buoy Tender Working Deck, Construction Deck		SSPC-SP 10/NACE NO. 2, using grit conforming to MIL-A-22262 / (1.5-2.5)	1) Inorganic Zinc <u>Safety Markings on Inorganic Zinc Buoy Deck:</u> 1) Epoxy Polysiloxane 2) Epoxy Polysiloxane - or - 1) High Build Epoxy 2) High Build Epoxy 3) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	2.5-3.5 Mist Coat 5.0-6.0 Mist Coat 5.0-6.0 2.0-3.0	7, 8, 14 14

NOTES FROM TABLE IA

1. Do not paint galvanized or stainless steel anchor, chain, or ground tackle.
2. When brushing or rolling epoxy polysiloxane as a topcoat, an extra coat may be required, to achieve proper dry film thickness or to get complete color coverage of the primer underneath. When spraying, epoxy siloxane or silicone alkyd enamel topcoat may be applied in two coats (a mist coat and full coat), as long as the maximum specified DFT is not exceeded.
3. Initially dip armored electric cables in the epoxy primer. After pulling the cables, touch up the primer and follow with topcoat. Do not paint identification labels.
4. Flight deck coating application shall be applied in accordance with NSTM Chapter 634. Outline and paint new flight deck Visual Landing Aid (VLA) and safety markings with a white (37875) color topping. Ensure that markings conform to the requirements of Naval Air Systems Command, Air Capable Ship Aviation Facilities Bulletin Number 1G or most recent amendment.
5. Power tool cleaning to bare metal (SSPC-SP 11) may be used for talon grid surfaces and areas that cannot be accessed by abrasive blasting or waterjetting.
6. Inorganic zinc paints cause metal fume fever when cut or burned with a torch.
7. With the exception of Ameron Dimetcote 302H, do not use inorganic zinc on water-jetted surfaces.
8. A mist coat is 1.0-2.0 mils (wet film thickness) of paint applied to promote adhesion or compatibility between unlike materials for spray applications only.
9. Water-based inorganic zinc may only be applied when ambient air and substrate temperatures are above 50 degrees F, in order for the water to evaporate completely and form a continuous coating. Water based coatings will not dry at relative humidity above 80 percent.
10. Use an organic zinc or high build epoxy primer in place of inorganic zinc for steel surfaces prepared with power tools, or for repair/maintenance of inorganic zinc systems.
11. All inaccessible areas shall be preserved by filling and draining with a rust preventive compound conforming to MIL-PRF-16173, Grade 3. These include rudders, skegs, interior surfaces of spuds, sealed void spaces at the stem and voids in the bilges or voids constantly exposed to salt water. Inaccessible voids on steel weather decks shall be prime coated wherever possible before welding of the closure plate and shall be tested for tightness. No further treatment is required. Examples are masts, yards, booms, davits, spud interior surfaces, boxed-in foundations, and boxed-in bulwark structures.
12. Coat the working surfaces of machinery or the surfaces of winch and capstan drums that contact line with an Inorganic Zinc (2.5-3.5 mils), Solvent Cutback Corrosion Preventative Compound, MIL-PRF-16173 Grade 3, or Thin Film Corrosion Preventative Compound, MIL-C-81309 Type II, Class I.
13. Safety markings: To prevent personnel from raising or lowering the spud too far, and to ensure proper spud handling, paint warning bands, using one coat of epoxy polysiloxane (5.0-6.0 mils DFT) or silicone alkyd enamel (2.0-3.0 mils DFT), as applicable, as follows:
 - Paint a 6-inch wide red band, completely around the spud, 6 inches from the top of the spud.
 - Further down the spud where the pin inserts, paint a red 6-inch wide band.

NOTES FROM TABLE IA (Continued)

14. The safety markings are alternating yellow and black stripes at 45 degrees to the bulwark for a distance of two feet.
15. The antifoulant is applied over the previous coat of epoxy while still tacky, which is defined as that curing (drying) stage when a fingertip pressed lightly against the film leaves only a slight impression and none of the film sticks to the finger.
16. Apply one coat of Epoxy Polysiloxane or MIL-PRF-24635 Silicone Alkyd at 3 mils DFT for the draft marks.
17. MIL-P-15931 vinyl antifoulant may be used to maintain/touch-up/repair an existing epoxy/MIL-P-15931 vinyl antifoulant system, but shall not be applied to new construction or an underwater body taken down to bare metal.
18. For coating purposes, the bilge keels, sea chests, gratings, and skegs are treated as part of the underwater body.
19. Total removal of antifouling coating system is not required. Before overcoating existing ablative AF paint, remove the leaching layer with a high pressure water wash. AF leaching layer is considered removed when the wash water turns from the color of the existing AF paint to a clear color. Ensure that the new AF paint is from the same manufacturer as the existing system.
20. Sea chests for fresh water icebreakers and sea chest, sea chest strainer plates, grid cooler hull recesses for WLR cutters and barges will be coated with a MIL-PRF-24647 Copper Ablative, Type I, Class 1A coating system for zebra mussel control.
21. Total dry film thickness encountered during removal may exceed specified thicknesses.
22. Total removal of u/w body coating system is not always required. The extent of the underwater body surface preservation is specified in the SectionB (Supplies or Services and Prices/Costs) of the contract.
23. Contact the manufacturer for application instructions and require the manufacturer's technical representative to be present while the coating is applied. The final coat shall have an almost gloss or wet sheen finish. Areas with a flat finish must be repainted to a wet sheen finish. Fouling release coatings must not be scraped or cleaned with a stiff brush. Once scratched, the topcoat must be reapplied to prevent fouling adhesion.
24. With the Antifoulant, Non-copper option, the underwater body will be white with a black boot-top. In this case, the boot-top is defined as surfaces beginning at and extending six inches below the water line.
25. Blistered material should be removed, flushed clean with water, thoroughly dried out, and built back up with a 100% solids epoxy chemically resistant filler. Avoid introducing dirt or abrasive blasting grit in to the fiberglass as this may stimulate additional blisters. Structurally damaged areas should be reinforced with a 100% solids chemically resistant epoxy resin. To retard blistering, wash the hull with Adhesion Promoter/Cleaner. Topcoat to 15 mils DFT with 100% solids epoxy tank coating which is chemically resistant. Epoxy resin should contain no water soluble components.
26. Cutters and boats painted with ablative paint should be washed with high pressure water (approximately 3000 psi, do not exceed 5000 psi) immediately after being removed from the water to prevent fouling from drying on the paint.
27. If zinc anodes are renewed, paint areas in way of removed anodes with the same system as the rest of the underwater body surfaces.

NOTES FROM TABLE IA (Continued)

28. Spread garnet or grit over the last epoxy coat when wet. Let it dry for 8 hours and sweep off the excess. Then apply Epoxy Polysiloxane or MIL-PRF-24635 Silicone Alkyd Enamel topcoat.
29. Units may opt to apply a coat of inorganic or organic zinc primer prior to applying this system. If inorganic zinc is preferred, it must be covered with a mist coat, 1.0-2.0 (wet film thickness) of high build epoxy prior to applying the full high build epoxy primer coat. Do not apply inorganic zinc to flight decks.
30. Polyurethane primers, membranes, color toppings, and non-skid are not allowed, even if listed on QPL-24667.
31. Type III non-skid deck coverings with an intermediate underlayment coat should only be used on decks that undergo a great deal of flexing or uneven decks where flatness is required.
32. Slip resistant sheets shall be installed in accordance with the appropriate class drawing.

TABLE IB. INTERIOR COATING SYSTEMS

Area or Compartment to be Finished	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	Min DFT (mils)	Notes
BILGES AND COFFERDAMS					
Bilges and Cofferdams, Steel	I	SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) -or-VGB SSPC-SP 12/NACE NO. 5 (To "WJ-2" and "SC-2") -or- SSPC-SP 11 (1.0)	1) High Build Epoxy 2) High Build Epoxy	5.0-6.0 5.0-6.0	1
	II	Same as Option I	1) MIL-PRF-23236 Abrasion-Resistant Epoxy Tank Coating. 2) MIL-PRF-23236 Abrasion-Resistant Epoxy Tank Coating.		-
Bilges, Aluminum			Do not paint		
BULKHEADS					
Bulkheads, Firezone, Steel	I	SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) -or- SSPC-SP 11 (1.0)	1) High Build Epoxy 2) MIL-PRF-46081 Intumescent Epoxy 3) MIL-PRF-46081 Intumescent Epoxy	5.0-6.0 5.0-6.0 5.0-6.0	2
	II	Same as Option I	1) High Build Epoxy 2) MIL-PRF-24596 Water Based Intumescent Type II, Class 1 3) MIL-PRF-24596 Water Based Intumescent Type II, Class 1	5.0-6.0 5.0-6.0 5.0-6.0	

TABLE IB. INTERIOR COATING SYSTEMS (Continued)

Area or Compartment to be Finished	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard- Authorized Materials)	Min DFT (mils)	Notes
BULKHEADS					
Bulkheads, Firezone, Aluminum		Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5) -or- Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination	1) High Build Epoxy 2) MIL-PRF-46081 Intumescent Epoxy 3) MIL-PRF-46081 Intumescent Epoxy	5.0-6.0 5.0-6.0 5.0-6.0	2
Bulkheads and Overheads, Un- insulated		<u>Steel:</u> SSPC-SP 6/NACE No. 3, using grit conforming to MIL-A-22262 / (1.5-3.5) -or- SSPC-SP 3 <u>Aluminum and Galvanized Steel:</u> Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5) -or- Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination	1) High Build Epoxy 2) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Water-Based or Solvent-Based), Type I, Class 1, Application A or B 3) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Water-Based or Solvent-Based), Type I, Class 1, Application A or B	5.0-6.0 1.0-2.0 1.0-2.0	3, 4

TABLE IB. INTERIOR COATING SYSTEMS (Continued)

Area or Compartment to be Finished	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	Min DFT (mils)	Notes
BULKHEADS (Continued)					
Bulkheads and Overheads, Un-insulated Metal- (Wet areas such as washrooms, water closets, shower spaces, food prep areas and exits to weather)		<p><u>Steel:</u> SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)</p> <p>-or-</p> <p>SSPC-SP 11 (1.0)</p> <p><u>Aluminum:</u> Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5)</p> <p>-or-</p> <p>Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination</p>	<p>1) High Build Epoxy</p> <p>2) High Build Epoxy</p>	<p>5.0-6.0</p> <p>5.0-6.0</p>	
Bulkheads and Overheads, In Way of Insulation		<p><u>Steel:</u> SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)</p> <p>-or-</p> <p>SSPC-SP 11 (1.0)</p> <p><u>Aluminum and Galvanized Steel:</u> Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5)</p> <p>-or-</p> <p>Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination</p>	<p>1) High Build Epoxy</p>	<p>5.0-6.0</p>	

TABLE IB. INTERIOR COATING SYSTEMS (Continued)

Area or Compartment to be Finished	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	Min DFT (mils)	Notes
BULKHEADS (Continued)					
Bulkheads and Overheads, Uninsulated Steel (Appearance not a factor)	I	SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-2.5)	1) Inorganic Zinc	2.5-3.5	4
	II	SSPC-SP 6/NACE No. 3, using grit conforming to MIL-A-22262 / (1.5-3.5) -or- SSPC-SP 3	1) High Build Epoxy 2) High Build Epoxy	5.0-6.0 5.0-6.0	
Bulkheads and Overheads, Uninsulated Aluminum (Appearance not a factor)		Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5) -or- Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination	1) High Build Epoxy 2) High Build Epoxy	5.0-6.0 5.0-6.0	
CHAIN LOCKERS					
		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-2.5)	Inorganic Zinc	2.5-3.5	4

TABLE IB. INTERIOR COATING SYSTEMS (Continued)

Area or Compartment to be Finished	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	Min DFT (mils)	Notes
CONDENSATION, SPACE SUBJECTED TO					
	I	SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)	1) High Build Epoxy 2) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Solvent-Based), Type I, Class 1, Application A or B (5.0 wet film thickness) 3) Extended Vermiculite ASTM C-516 (apply while previous coat is still wet) 4) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Solvent-Based), Type I, Class 1, Application A or B 5) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Solvent-Based), Type I, Class 1, Application A or B	5.0-6.0 1.0-2.0 - 1.0-2.0 5.0-6.0 10.0-15.0 10.0-15.0	5
	II	Same as Option I	1) High Build Epoxy 2) Ceramic Insulation Coating 3) Ceramic Insulation Coating	5.0-6.0 See Manuf. Instructions.	5
DECK PLATES					
Deck plates, Steel		<u>Underside and edges:</u> SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-2.5) <u>Top (unpainted):</u> Wire Brush	1) Inorganic Zinc 1) Coat with lube oil periodically and wipe off excess.	2.5-3.5	4
Deckplates, Aluminum And Stainless Steel			- Do not paint.		

TABLE IB. INTERIOR COATING SYSTEMS (Continued)

Area or Compartment to be Finished	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	Min DFT (mils)	Notes
DECKS, METAL INTERIOR AND NON-SKID AREAS					
Decks - Wet Areas, Food Preparation Areas, Exit Areas, And Areas Subject To Condensation		<u>Steel</u> : SSPC-SP 11 (1.0) <u>Aluminum</u> : Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination	1) High Build Epoxy 2) High Build Epoxy	5.0-6.0 5.0-6.0	
Decks - Dry Areas And Low Wear Areas		<u>Steel</u> : SSPC-SP 3 <u>Aluminum</u> : Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination	1) High Build Epoxy 2) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	5.0-6.0 2.0-3.0	
Decks - In Way of Deck Covering		<u>Steel</u> : SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) -or- SSPC-SP 11 (1.0) <u>Aluminum</u> : Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5) -or- Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination	1) High Build Epoxy	5.0-6.0	
Metal Decks, Non-Skid Tread		<u>Steel</u> : SSPC-SP 11 (1.0) <u>Aluminum</u> : Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination	1) MIL-PRF-17951 Tread Material	-	

TABLE IB. INTERIOR COATING SYSTEMS (Continued)

Area or Compartment to be Finished	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard-Authorized Materials)	Min DFT (mils)	Notes
DOOR, JOINER					
		<p><u>Steel</u>: SSPC-SP 3</p> <p><u>Aluminum</u>: Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination</p>	<p>1) High Build Epoxy</p> <p>2) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Water-Based or Solvent-Based), Type I, Class 1, Application A or B</p> <p>3) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Water-Based or Solvent-Based), Type I, Class 1, Application A or B</p>	<p>5.0-6.0</p> <p>1.0-2.0</p> <p>1.0-2.0</p>	4
ELECTRIC CABLE, ARMORED					
		Clean with Adhesion Promoter/Cleaner. Break gloss with sandpaper as required.	<p>1) High Build Epoxy</p> <p>2) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Water-Based or Solvent-Based), Type I, Class 1, Application A or B</p> <p>3) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Water-Based or Solvent-Based), Type I, Class 1, Application A or B</p>	<p>5.0-6.0</p> <p>1.0-2.0</p> <p>1.0-2.0</p>	4
ELECTRONICS EQUIPMENT					
Electronics Equipment					6
FURNITURE AND GALLEY EQUIPMENT					
		<p><u>Steel</u>: SSPC-SP 3</p> <p><u>Aluminum</u>: Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination</p>	<p>1) High Build Epoxy</p> <p>2) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Water-Based or Solvent-Based), Type I, Class 1, Application A or B</p> <p>3) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Water-Based or Solvent-Based), Type I, Class 1, Application A or B</p>	<p>5.0-6.0</p> <p>1.0-2.0</p> <p>1.0-2.0</p>	4, 7

TABLE IB. INTERIOR COATING SYSTEMS (Continued)

Area or Compartment to be Finished	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard- Authorized Materials)	Min DFT (mils)	Notes
INSULATION SURFACES					
Insulation Surfaces, Fiberglass Sheet/ Closed Cell PVC Foam		Clean with Adhesion Promoter/Cleaner. Break gloss with sandpaper as required.	1) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Water-Based or Solvent-Based), Type I, Class 1, Application E	1.0-2.0	4
			2) MIL-PRF-24596, Coating Compounds, Nonflaming Fire-protective (Water-Based or Solvent-Based), Type I, Class 1, Application E	1.0-2.0	
MACHINERY, INTERIOR					
Machinery, Operating Temperatures Under 200°F, Unmachined Steel Or Aluminum Surfaces		<u>Steel</u> : SSPC-SP 3 <u>Aluminum</u> : Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination	1) High Build Epoxy	5.0-6.0	9
			2) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	2.0-3.0	
Machinery, Operating Temperatures Over 200°F		<u>Steel</u> : SSPC-SP 3 <u>Aluminum</u> : Power tool clean using non-metallic abrasive padding, to remove all coatings and contamination	1) TT-P-28 Heat Resisting Aluminum Paint 2) TT-P-28 Heat Resisting Aluminum Paint	1.0-2.0 1.0-2.0	9
PIPING, NOT EXPOSED TO WEATHER					
Piping, Insulated and Uninsulated, Under 200°F		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5- 3.5)	1) High Build Epoxy 2) MIL-PRF-24635 Silicone Alkyd, Type II, Class 1	5.0-6.0 2.0-3.0	
Piping, Uninsulated, Over 200°F		Clean of all corrosion products, rust, mill scale, and dirt, then roughen surface.	1) TT-P-28 Heat Resisting Aluminum Paint 2) TT-P-28 Heat Resisting Aluminum Paint	1.0-2.0 1.0-2.0	
PLASTIC SURFACES					
		Lightly roughen; all extraneous matter shall be removed by washing with Adhesion Promoter /Cleaner. Glazed surfaces shall be sanded to promote adhesion.	1) High Build Epoxy 2) High Build Epoxy	Mist Coat 2.0-3.0	

TABLE IB. INTERIOR COATING SYSTEMS (Continued)

Area or Compartment to be Finished	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard Authorized Materials)	Min DFT (mils)	Notes
TANKS AND VOIDS					
Tanks and Voids, General		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)	1) MIL-PRF-23236 General Use - Fuel and Salt Water (Type IV, Grade A/B)	5.0-6.0	8, 10, 11
			2) MIL-PRF-23236 General Use - Fuel and Salt Water (Type IV, Grade A/B)	5.0-6.0	
Ballast Tanks	I	SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)	1) MIL-PRF-23236 General Use - Fuel and Salt Water (Type IV, Grade A/B)	5.0-6.0	10, 11
	II		2) MIL-PRF-23236 General Use - Fuel and Salt Water (Type IV, Grade A/B)	5.0-6.0	
	III		1) MIL-PRF-23236 Salt Water Only (Type IV, Class 2, Grade A/B)	5.0-6.0	
		2) MIL-PRF-23236 Salt Water Only (Type IV, Class 2, Grade A/B)	5.0-6.0		
		1) Primer: MIL-PRF-23236 Salt Water Only, 100% Solids, Edge-Retentive (Type IV, Class 2, Grade A/B)	1) Primer: MIL-PRF-23236 Salt Water Only, 100% Solids, Edge-Retentive (Type IV, Class 2, Grade A/B) 2) Topcoat: MIL-PRF-23236 Salt Water Only, 100% Solids, Edge-Retentive (Type IV, Class 2, Grade A/ MIL-PRF-23236 Grade A when storing, applying, and curing at a temperature range of 20 to 50 degrees F.B)	See Manuf. Instructions	10, 11
		2) Topcoat: MIL-PRF-23236 Salt Water Only, 100% Solids, Edge-Retentive (Type IV, Class 2, Grade A/ MIL-PRF-23236 Grade A when storing, applying, and curing at a temperature range of 20 to 50 degrees F.B)			
Fuel/JP-5 Tanks, Service, Storage, Overflow, Drain		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)	1) MIL-PRF-23236 General Use - Fuel and Salt Water (Type IV, Grade A/B)	5.0-6.0	10, 11
			2) MIL-PRF-23236 General Use - Fuel and Salt Water (Type IV, Grade A/B)	5.0-6.0	

TABLE IB. INTERIOR COATING SYSTEMS (Continued)

Area or Compartment to be Finished	Option	Surface Preparation / (Anchor Profile in mils)	Coating System (See Table II For List of Coast Guard Authorized Materials)	Min DFT (mils)	Notes
TANKS AND VOIDS (Continued)					
Grey Water, Sewage, and CHT Tanks		SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5)	1) MIL-PRF-23236 General Use - Fuel and Salt Water (Type IV, Grade A/B)	5.0-6.0	10, 12
			2) MIL-PRF-23236 General Use - Fuel and Salt Water (Type IV, Grade A/B)	5.0-6.0	
			-or-		
			1) MIL-PRF-23236 Salt Water Only (Type IV, Class 2, Grade A/B)	5.0-6.0	
			2) MIL-PRF-23236 Salt Water Only (Type IV, Class 2, Grade A/B)	5.0-6.0	
Lube Oil and Unballasted Fuel Tanks			Apply a heavy coat of lube oil		
Potable Water Tanks		<u>Steel</u> : SSPC-SP 10/NACE No. 2, using grit conforming to MIL-A-22262 / (1.5-3.5) <u>Aluminum</u> : Brush blast to bare metal with clean, fine aluminum oxide, garnet or equivalent inert material conforming to A-A-59316, Type I & IV / (1.0-1.5)	Potable Water Tank Coating-NSF Approved (See manufacturer's product data sheets for number of coats to achieve total specified DFT)	10.0-12.0 (Total)	12, 13
			- or - Potable Water Tank Coating-NEHC Approved (three contrasting coats required)	8.0-12.0 (Total)	
TRANSDUCER HULL RINGS					
Interior Surfaces		Same surface preparation as the Bilge	Use the same coating system as the Bilge		
Wood, Stained and Varnished Interior		Remove varnish as necessary by scraping or sanding. Sand surface smooth, wipe clean.	TT-S-711 Interior Wood Stain	-	

NOTES FROM TABLE IB

1. Bilges susceptible to ballast damage shall be coated with 20 mils of Amercoat 238 or equivalent abrasion resistant epoxy tank coating from MIL-PRF-23236.
2. On existing well bonded coatings, the two coats of intumescent epoxy may be applied over the cleaned old coating.
3. Paint aluminum only as required to prevent corrosion. Always prime aluminum before painting to avoid paint failure.
4. Water-based coatings may only be applied when ambient air and substrate temperatures are above 50 degrees F., in order for the water to evaporate completely and form a continuous coating. Water-based coatings will not dry at relative humidity above 80 percent.
5. This coating system shall not be used to replace thermal or anti-sweat insulation on any piping systems.
6. In general, electronics equipment shall not be painted in the field. Minor touch-ups of exposed surfaces may be made using the instructions provided in the equipment technical or service manual. Paint of original matching color shall be used. Information on the proper paint and color can be obtained from the manufacture.
7. Corrosion resistant steel furniture and galley equipment, decorative plastic surfaces such as those on table tops, porcelain surfaces and interior bright aluminum furniture and galley equipment are not to be painted.
8. All inaccessible voids shall be treated by filling and draining with a rust preventive compound conforming to MIL-PRF-16173, Grade 3. These include rudders, skegs, sealed void spaces at the stem and voids in the bilges or voids constantly exposed to salt water.
9. Working metal surfaces shall not be painted. They shall be coated with a Solvent Cutback Corrosion Preventive Compound, MIL-PRF-16173, Grade 3, or Thin Film Corrosion Preventive Compound, MIL-C-81309, Type II, Class 1.
10. Drying times between coats and final system cure for specified tank coatings other than potable water tanks shall be in accordance with manufacturer's recommendations.
11. Use a coating system qualified to MIL-PRF-23236 Grade A when storing, applying, and curing at a temperature range of 20 to 50 degrees F. Use a coating system qualified to MIL-PRF-23236 Grade B when storing, applying, and curing at a temperature range of 51 to 100 degrees F.
12. All potable water tank coatings must be approved by either the National Sanitation Foundation (NSF) or Naval Environmental Health Center (NEHC).
13. Drying time between coats for potable water tank coatings, including stripe coat, shall be not less than 24 hours at a minimum temperature of 77 degrees F; final system curing prior to putting tanks back in service shall be not less than 7 days at a minimum temperature of 77 degrees F. Ambient conditions specified in paragraph 3.3.4 (Environmental control during tank preservation) must remain in use during curing. For touch-up preservation, observe the following curing requirements:
 - 24 hours between coats and 24 hours after final coat (@ 77 degrees F), if the largest single touch-up area is less than one square foot, and the cumulative total touch-up area is less than four square feet.
 - 24 hours between coats and 48 hours after the final coat (@ 77 degrees F), if the largest single area is between one and two square feet or the cumulative total touch-up area is less than ten square feet.
 - Seven full days @ 77 degrees F, if any single area is greater than two square feet.

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS

GENERIC/COMMERCIAL CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
ADHESION PROMOTER AND CLEANER					
	DEVPREP 88	-	Ameron Performance Coatings.	501-455-4500	501-455-4069
ANTI-ABRASION COATINGS FOR ICEBREAKING VESSELS					
	Ameron Amerlock 400	Gray / Red	Ameron Performance Coatings.	501-455-4500	501-455-4069
	Ameron Devguard 238	Black / Red	"	"	"
	International Intershield (KZA 350 / KZA 351/KZA 352)	Silver-Gray/Red/Black	"	"	"
ANTIFOULANT, NON-COPPER					
	E Paint No Foul SN-1	Black / Gray / White	E Paint Company	508-540-4412	508-495-3210
CERAMIC INSULATION COATING					
	Span-World Temp-Coat Type "F"	White	Span World Distribution	504-651-2911	504-651-2964
EPOXY POLYSILOXANE					
	Ameron PSX-700	Various	Ameron Performance Coatings.	501-455-4500	501-455-4069
FOULING RELEASE SYSTEM					
	International Intersleek System				
	Intergard (FPL 274-FPA 327 / FPJ 034-FPA 327)	Red / Gray	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	Intersleek Tie Coat BXA 386/BXA 390/BXA 391	Gray	"	"	"
	Intersleek Finish BXA 819/BXA820/BXA 821	Black	"	"	"

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

GENERIC/COMMERCIAL CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
HIGH BUILD EPOXY (General purpose epoxies)					
	Ameron Amercoat 230	Various	Ameron Performance Coatings.	501-455-4500	501-455-4069
	Ameron Amercoat 235	Various	"	"	"
	Ameron Amercoat 236	Various	"	"	"
	Ameron Amercoat 385	Various	"	"	"
	Hempel Hempadur 4514	Various	Hempel Coatings (USA), Inc.	409-523-6000	409-523-6073
	Hempel Hempadur 4515	Various	"	"	"
	International Intergard (264) FP Series	Various	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	International Intertuf (262) KH Series	Various	"	"	"
	Sherwin-Williams Duraplate 235 B67-235 Series/B67V235	Various	The Sherwin-Williams Company	877-877-7115	226 Talmadge Road Edison, New Jersey 08818
	Sherwin-Williams Epoxy P23 Series/P23VQ80	Various	"	"	"
HIGH TURBULENCE COATING					
	Ameron Amercoat 238	Black / Red	Ameron Performance Coatings.	501-455-4500	501-455-4069
	Ameron Amerlock 400	Black / Red	"	"	"
	Hempel Hempadur MultiStrength 35530	Black / Red	Hempel Coatings (USA), Inc.	409-523-6000	409-523-6073
	Somay Hycote 151 Epoxy	Black / Red	Somay Products, Inc	305-633-6333	305 638-5524
	Somay Hycote 165 Epoxy	Black / Red	"	"	"
	International Interzone 1000	Black / Red	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	Jotun Marathon 4000 Series	Black / Red	Jotun Paints, Inc.	504-394-3538	504-394-3726

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

GENERIC/COMMERCIAL CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
INORGANIC ZINC (DOD-P-24648 inorganic zinc may also be used)					
	Ameron Dimetcote 302H	Green	Ameron Performance Coatings.	501-455-4500	501-455-4069
	Ameron Dimetcote 9HS	Green	"	"	"
	Hempel Galvosil 1568-19830	Gray	Hempel Coatings (USA), Inc.	409-523-6000	409-523-6073
	Sherwin-Williams Zinc Clad IIHS B69VZ1/ B69VZ3/B69D11	Gray-Green	The Sherwin-Williams Company	877-877-7115	226 Talmadge Road Edison, New Jersey 08818
INORGANIC ZINC, MODIFIED					
	Ameron Dimetcote 302H	Green	Ameron Performance Coatings.	501-455-4500	501-455-4069
ORGANIC ZINC					
	Ameron Amercoat 68HS	Red-Gray	Ameron Performance Coatings.	501-455-4500	501-455-4069
	Hempel Hempadur 1736-19830	Red-Gray	"	"	"
	International Interzinc 75V (EPA075V)	Red	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	Jotun Barrier MZ-4 / V13F4	Yellow-Green	Jotun Paints, Inc.	504-394-3538	504-394-3726
	Sigma Sigmacover Zinc Primer II 7402	Red-Brown	Sigma Coatings USA	201-866-8400	201-866-7701

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

GENERIC/COMMERCIAL CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
POTABLE WATER TANKS (Must be NSF or NEHC approved)					
	Ameron Amercoat 133 (NSF approved \geq 1000 gal.)	Off-white/Red	Ameron Performance Coatings.	501-455-4500	501-455-4069
	Ameron Amercoat 233H (NSF approved \geq 1000 gal.)	Buff/Light Blue/Off-White	"	"	"
	Ameron Amerlock 400 (NSF approved \geq 1000 gal.)	Ivory/ Off-White/ RT-1805 Blue/ White	"	"	"
	Freecom CeramKote 54 (NSF approved \geq 50 gal.)	Black/White/ Gray/Blue/Red/ Yellow/Orange/ Green or any combination	Freecom, Inc.	800-543-2326	800-543-2326
	International 5747/5748 (Primer) (NEHC approved) International 5753/5754 (Topcoat)	Green White	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	International Interline 785 - (7530/7536) (NSF approved \geq 100 gal.)	White/Beige	"	"	"
	Sherwin-Williams (NEHC approved) Tankguard No. 1 N11G100/N11V100 Tankguard No. 3 N11W100/N11V102	Green White	The Sherwin-Williams Company	877-877-7115	226 Talmadge Road Edison, New Jersey 08818
	Jotun 264-(D51/F51/W51) (NSF approved \geq 1000 gal.)	Buff/Gray/White	Jotun Paints, Inc.	504-394-3538	504-394-3726

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

GENERIC/COMMERCIAL CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
RUST DEOXIDIZING PRIMER					
	RDP	-	Total Rust & Corrosion Control Inc	228-831-8701	228-831-1939
SLIP RESISTANT SHEETS					
	3M Safety-Walk General Purpose Slip Resistant Surfacing	Black	Louisiana Association for the Blind	888-635-6471	318-635-8902
	3M Safety-Walk Primer	-	"	"	"
	3M Safety-Walk Edge Sealing Compound No. 5569	-	"	"	"
SYNTHETIC WOOD FINISH (Use following or similar material.)					
	Akzo Nobel Sikkens Cetol Marine	Satin	Akzo Nobel Coatings Inc	248-637-0400	248-637-5252
	Akzo Nobel Sikkens Cetol Marine Gloss	Gloss Overcoat	"	"	"
	Flood Deks Olje #1	Matte	The Flood Company	330-650-4070	330-650-1453
	Flood Deks Olje #2	Gloss Overcoat	"	"	"

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

MIL/FED SPEC CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
MIL-PRF-23236 PAINT COATING SYSTEMS, FUEL AND SALT WATER BALLAST TANKS					
General Use - Fuel and Salt Water (Type IV, Grade A and B)					
	Ameron Amercoat 395	-	Ameron Performance Coatings.	501-455-4500	501-455-4069
	Ameron Amercoat 395FD	-	"	"	"
	Ameron Amercoat 395FD w/ 861 Accelerator	-	"	"	"
	Ameron Amercoat 244HS	-	"	"	"
	International Intergard FP Series	-	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	International Intergard KB Series	-	"	"	"
	Jotun Valspar Sovapon 264 Series	-	Jotun Paints, Inc.	504-394-3538	504-394-3726
MIL-PRF-23236 PAINT COATING SYSTEMS, FUEL AND SALT WATER BALLAST TANKS					
General Use - Fuel and Salt Water (Type IV, Grade B)					
	Ameron Amercoat 236	-	Ameron Performance Coatings.	501-455-4500	501-455-4069
	Esgard Ultraguard 203	-	Esgard, Inc.	337-234-6327	
	Jotun 8F3/8W3	-	Jotun Paints, Inc.	504-394-3538	504-394-3726
	Jotun 550F25/550W3	-	Jotun Paints, Inc.	504-394-3538	504-394-3726
	Jotun 590F25/590W3	-	Jotun Paints, Inc.	504-394-3538	504-394-3726
	Sherwin-Williams N11-100 Series	-	The Sherwin-Williams Company	877-877-7115	226 Talmadge Road Edison, New Jersey 08818
	Sherwin-Williams 5001 Primer/5006 Barrier	-	"	"	"
	Sigma Primer 5470/Finish 5471	-	Sigma Coatings USA	201-866-8400	201-866-7701

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

MIL/FED SPEC CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
MIL-PRF-23236 PAINT COATING SYSTEMS, FUEL AND SALT WATER BALLAST TANKS					
Salt Water Only (Type IV, Class 2, Grade A and B) (Continued)					
	Ameron Amercoat 385	-	Ameron Performance Coatings.	501-455-4500	501-455-4069
	International Intergard 180 Series	-	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
Salt Water Only, 100% Solids, Edge-Retentive (Type IV, Class 2, Grade A)					
	Jotun Primer: 591F25/591T8 (Wintergrade) Jotun Topcoat: 591W3/591T8 (Wintergrade)	Gray White	Jotun Paints, Inc.	504-394-3538	504-394-3726
Salt Water Only, 100% Solids, Edge-Retentive (Type IV, Class 2, Grade B)					
	Jotun Primer: 591F25/591T100 Jotun Topcoat: 591W3/591T100	Gray White	Jotun Paints, Inc.	504-394-3538	504-394-3726
	Sherwin-Williams Primer: Dura-Plate UHS B62H210/B62V210 Sherwin-Williams Topcoat: Dura-Plate UHS B62W210/ B62V210 Dura-Plate UHS B62G210/ B62V210	Gold White Green	The Sherwin-Williams Company	877-877-7115	226 Talmadge Road Edison, New Jersey 08818
	Sherwin-Williams Primer: Dura-Plate UHS 235 B67H235/B67V235 Sherwin-Williams Stripecoat/Topcoat: Dura-Plate UHS B62W210/ B62V210 Dura-Plate UHS B62G210/ B62V210	Buff White Green	"	"	"

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

MIL/FED SPEC CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
MIL-PRF-23236 PAINT COATING SYSTEMS, FUEL AND SALT WATER BALLAST TANKS					
Salt Water Only, 100% Solids, Edge-Retentive (Type IV, Class 2, Grade B) (Continued)					
	Sherwin-Williams Primer: Seaguard 5001 Epoxy Primer N11-200 Seaguard 5001 Epoxy Primer N11-200 Sherwin-Williams Topcoat: Dura-Plate UHS B62W210/ B62V210 Dura-Plate UHS B62G210/ B62V210	Red Red White Green	“	“	“
	Sigma Primer: Sigmaguard BT Primer 5404 Sigmaguard BT Primer 5404 Sigma Stripecoat/Topcoat: Sigma Sigmaguard BT 5411-5000 Sigma Sigmaguard BT 5411-5000 Sigma Sigmaguard BT 5411-S674 Sigma Sigmaguard BT 5411-S674 Sigma Sigmaguard BT 5411-7000 Sigma Sigmaguard BT 5411-7000	Amber Amber Gray Gray Aqua Green Aqua Green White White	Sigma Coatings USA	201-866-8400	201-866-7701

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

MIL/FED SPEC CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
MIL-PRF-24596 NONFLAMING FIRE-PROTECTIVE COATING COMPOUNDS, TYPE I, CLASS 1, WATER-BASED					
Applications A, B, and E	Amercoat 208	Various	Ameron Performance Coatings.	501-455-4500	501-455-4069
Applications A and B	Devflex 601	Various	"	"	"
Applications A and B	Product 270	Various	Davlin Coatings, Inc.	-	P.O. Box 2308 Berkeley, CA 94702
Application A	Interlite Series	Various	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
Applications A and B	5347V Series	Various	"	"	"
Applications A and B	N-6XXX Series	Various	Niles Chemical Paint Inc.	616-683-3377	P.O. Box 307 Niles, I 49120
MIL-PRF-24596 NONFLAMING FIRE-PROTECTIVE COATING COMPOUNDS, TYPE I, CLASS 1, SOLVENT-BASED					
Applications A and B	N-6XXX Series	Various	Niles Chemical Paint Inc.	616-683-3377	P.O. Box 307 Niles, I 49120

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

MIL/FED SPEC CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
MIL-PRF-24635, Type II, Class 1, SILICONE ALKYD ENAMEL, HIGH GLOSS					
	Amercoat 3203	Various	Ameron Performance Coatings.	501-455-4500	501-455-4069
	International Interlac-800	Various	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	Silicone Alkyd 5000 Series	Various	"	"	
	N-4487	Various	Niles Chemical Paint Inc.	616-683-3377	225 Fort Street Niles, MI 77091
	F-16P50	Various	The Sherwin-Williams Company	877-877-7115	226 Talmadge Road Edison, New Jersey 08818
	Jack Tar	Various	Mobile Paint Company	800-621-6952	
MIL-PRF-24647 ANTICORROSIVE AND ANTIFOULING SHIP HULL PAINT SYSTEM					
Anticorrosives					
	Ameron Amercoat 230	Gray/ Red	Ameron Performance Coatings.	501-455-4500	501-455-4069
	Ameron Amercoat 235	Gray/Red	"	"	"
	Hempel Hempadur 4515-1148	Gray	Hempel Coatings (USA), Inc.	409-523-6000	409-523-6073
	Hempel Hempadur 4515-5063	Red	"	"	"
	Hempel Hempadur 4514-1148 Low Temp	Gray	"	"	"
	Hempel Hempadur 4514-5063 Low Temp	Red	"	"	"

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIAL (CONTINUED)

MIL/FED SPEC CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
MIL-PRF-24647 ANTICORROSIVE AND ANTIFOULING SHIP HULL PAINT SYSTEM (Continued)					
Anticorrosives (Continued)					
	International Intergard FPJ034/FPA327 Summer Grade	Light Gray	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	International Intergard FPL274/FPA327 Summer Grade	Red	"	"	"
	International Intergard FPJ034/FCA321 Winter Grade	Light Gray	"	"	"
	International Intergard FPL274/FCA321 Winter Grade	Red	"	"	"
	International Intertuf KHA302/KHA062 Summer Grade	Gray	"	"	"
	International Intertuf KHA303/KHA062 Summer Grade	Red	"	"	"
	International Intertuf KHA302/KHA414 Winter Grade	Gray	"	"	"
	International Intertuf KHA303/KHA414 Winter Grade	Red	"	"	"
	The Sherwin Williams P23AQ81/P23VQ80	Gray	The Sherwin-Williams Company	877-877-7115	226 Talmadge Road Edison, New Jersey 08818
	The Sherwin Williams P23RQ82/P23VQ80	Red	"	"	"
Antifoulants					
	Ameron ABC #3	Black	Ameron Performance Coatings.	501-455-4500	501-455-4069
	Ameron ABC #3	Black	"	"	"
	Ameron ABC #3	Red	"	"	"

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIAL (CONTINUED)

MIL/FED SPEC CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
MIL-PRF-24647 ANTICORROSIVE AND ANTIFOULING SHIP HULL PAINT SYSTEM (Continued)					
Antifoulants (Continued)					
	Hempel Olympic 7660-1999	Black	Hempel Coatings (USA), Inc.	409-523-6000	409-523-6073
	Hempel Olympic 7660-5063	Red	"	"	"
	International Interviron BRA640	Red	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	International Interviron BRA642	Black	"	"	"
MIL-PRF-24647 ANTICORROSIVE AND ANTIFOULING SHIP HULL PAINT SYSTEM (Continued)					
Anticorrosives (Continued)					
	The Sherwin Williams P30BQ12	Black	The Sherwin-Williams Company	877-877-7115	226 Talmadge Road Edison, New Jersey 08818
	The Sherwin Williams P30RQ10	Red	"	"	"
DOD-P-24648 PRIMER COATING, ZINC DUST PIGMENTED (INORGANIC ZINC)					
	Interzinc 685 (Water-Based)	Gray	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	13F18 WB-18 (Water-Based)	Gray	Jotun Paints, Inc.	504-394-3538	504-394-3726
	Pro-Line Pro-Zinc 202 (Water-Based)	Gray	The Sherwin-Williams Company	877-877-7115	226 Talmadge Road Edison, New Jersey 08818
	Pro-Line Pro-Zinc 206 (Solvent-Based)	Gray	"	"	"
	Pro-Line Pro-Zinc 221 (Solvent-Based)	Gray	"	"	"

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

MIL/FED SPEC CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
MIL-PRF-24667 NON-SKID COATING SYSTEM					
Primer					
	MS-7C, MS-10C, MS-7CZ	Gray/Buff	AST American Safety Technologies	800-631-7841	201-403-1108
	Amercoat 137	Gray/Buff	Ameron Performance Coatings.	501-455-4500	501-455-4069
Color Topping	MS-200, MS-180	White (37875)	AST American Safety Technologies	800-631-7841	201-403-1108
	Amercoat 929	White (37875)	Ameron Performance Coatings.	501-455-4500	501-455-4069
Non-skid					
Type I, High Durability, Rollable, Comp G, General Use Abrasive Deck Coating					
	MS-400G, MS-440G	Gray (36076)	AST American Safety Technologies	800-631-7841	201-403-1108
	Amercoat 138HR	Gray (36076)	Ameron Performance Coatings.	501-455-4500	501-455-4069
Type II, Standard Durability, Roll or Trowel, Comp G, General Use Abrasive Deck Coating (Epoxy)					
	MS-375G, MS-440G	Gray (36076)	AST American Safety Technologies	800-631-7841	201-403-1108
	Amercoat 138HR	Gray (36076)	Ameron Performance Coatings.	501-455-4500	501-455-4069

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

MIL/FED SPEC CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
MIL-PRF-24667 NON-SKID COATING SYSTEM					
Non-Skid					
Type II, Standard Durability, Roll or Trowel, Comp G, General Use Abrasive Deck Coating (UV/Low Solar Absorbent Epoxy)					
	MS-660G	Gray (36076)	AST American Safety Technologies	800-631-7841	201-403-1108
Type III, Standard Durability, Sprayable, Comp G, General Use Abrasive Deck Coating					
	Underlayment/Membrane: MS-1600 Topcoat: MS-660G	Gray (36076)	AST American Safety Technologies	800-631-7841	201-403-1108
Type IV, Standard Durability, Sprayable, Comp G, General Use Abrasive Deck Coating					
	MS-2000, MS-375G	Gray (36076)	AST American Safety Technologies	800-631-7841	201-403-1108
	Amercoat 138HR	Gray (36076)	Ameron Performance Coatings.	501-455-4500	501-455-4069
MIL-PRF-46081 THERMAL INSULATING COATING COMPOUND (INTUMESCENT)					
	477 ML-ODA, 477-MLB	-	Fire Research Laboratories	-	5364 Pam American FWY NE Albuquerque, NM 87109

TABLE II. COAST GUARD-APPROVED COATINGS/MATERIALS (Continued)

MIL/FED SPEC CLASS	BRAND	COLORS (FED-STD-595)	MANUFACTURER	PHONE #	FAX/ADDRESS
MIL-C-81309 CORROSION PREVENTIVE COMPOUND, WATER DISPLACING, ULTRA-THIN FILM					
	Corrosion X, Aviation	-	Corrosion Technologies Corp	-	P.O. Box 551625 Dallas, TX 75355-1625
	Corrosion Coat	-	CRC Industries, Inc.	-	885 Louis Drive Warminster, PA 18974
	LPS 813A-NF	-	LPS Laboratories, Inc.	-	4647 Hugh Howell Road Box 105052 Tucker, GA 30085-5052
TT-P-28 ALUMINUM HEAT RESISTING PAINT					
	5492	Aluminum	Courtaulds International Paint Co.	800-654-7692	6001 Antoine Drive Houston, TX, 77091
	N6974	Aluminum	Niles Chemical Paint Inc.	616-683-3377	225 Fort Street Niles, MI 77091
	CHEM 2040	Aluminum	The Sherwin-Williams Company	877-877-7115	226 Talmadge Road Edison, New Jersey 08818

TABLE III. TOP COATING COLOR FOR U/W BODY, BOOT-TOP AND FREEBOARD

VESSEL CLASS	U/W BODY *	BOOT TOP *	FREEBOARD
14' Skiffs - ops on ice	Int'l Orange (12197)	Int'l Orange (12197)	Int'l Orange (12197)
ASB	Red (11105)	Black (17038)	Black (17038)
Barges	Red (11105)	Black (17038)	Black (17038)
Buoy Boats	Red (11105)	Black (17038)	Black (17038)
Flood Relief Punts	Int'l Orange (12197)	Int'l Orange (12197)	Int'l Orange (12197)
LARC	Black (17038)	White (17925)	White (17925)
LCM	Black (17038)	Black (17038)	Black (17038)
LCVP	Red (11105)	Black (17038)	Black (17038)
Motor Cargo Boats	White (17925)	White (17925)	White (17925)
Motor Lifeboats (44')	Red (11105)	Black (17038)	White (17925)
Motor Lifeboats (47')	Black (17038)	Black (17038)	No Coating
Motor Surf Boats	White (17925)	White (17925)	White (17925)
TANB	Hull and freeboard no longer painted. Remove coatings in lieu of repainting.		
USCGC MACKINAW	Red (11105)	Black (17038)	Red (11105)

*Note: Many of the coatings specified for the boot-top/underwater body are not available in the FED-STD-595 color numbers listed. Use the color which best approximates the FED STD color number. For example, cuprous oxide-based antifouling coatings are not available in red. A red oxide (brownish red) would be used instead.

TABLE III. TOP COATING COLOR FOR U/W BODY, BOOT-TOP AND FREEBOARD (Continued)

VESSEL CLASS	U/W BODY *	BOOT TOP *	FREEBOARD
Utility Boat (41')	Black (17038)	Black (17038)	No Coating
WAGB	Black (17038)	Black (17038)	Red (11105)
WHEC	Red (11105)	Black (17038)	White (17925)
WIX(USCGC EAGLE)	Red (11105)	Black (17038)	White (17925)
WLB	Black (17038)	Red (11105)	Black (17038)
WLI	Black (17038)	Red (11105)	Black (17038)
WLIC	Black (17038)	Red (11105)	Black (17038)
WLM	Black (17038)	Red (11105)	Black (17038)
WLR	Red (11105)	Red (11105)	Black (17038)
WMEC	Red (11105)	Black (17038)	White (17925)
WPB	Red (11105)	Black (17038)	White (17925)
WTGB	Black (17038)	Red (11105)	Black (17038)
WTR	Red (11105)	Black (17038)	White (17925)
WYTL	Black (17038)	Red (11105)	Black (17038)
WYTM	Black (17038)	Red (11105)	Black (17038)

*Note: Many of the coatings specified for the boot-top/underwater body are not available in the FED-STD-595 color numbers listed. Use the color which best approximates the FED STD color number. For example, cuprous oxide-based antifouling coatings are not available in red. A red oxide (brownish red) would be used instead.

TABLE IV. COLOR SCHEME FOR UNDERWATER BODY (U/W BODY) AND BOOT-TOP SURFACES IN RELATION TO FREEBOARD TOP COATING COLOR

FREEBOARD COLOR AND SERVICE	1ST COAT	2ND COAT	3RD COAT	4TH COAT	5TH COAT
White Hull (Salt Water Boats W/Boot-Topping)	Red (Anticorrosive From Keel To Top Of Boot- Topping)	Gray (Anticorrosive From Keel To Top Of Boot- Topping)	Black (Antifouling From Keel To Top Of Boot- Topping)	Red (Antifouling From Keel To Top Of Boot- Topping)	Black (Antifouling Over Boot- Topping Only!)
White Hull (Salt-Water Boats W/O Boot-Topping)	Red (Anticorrosive From Keel To Waterline)	Gray (Anticorrosive From Keel To Waterline)	Red (Antifouling From Keel To Waterline)	Black (Antifouling From Keel To Waterline)	Not Applicable
Black Hull (Salt Water Boats W/Boot-Topping)	Red (Anticorrosive From Keel To Top Of Boot- Topping)	Gray (Anticorrosive From Keel To Top Of Boot- Topping)	Red (Antifouling From Keel To Top Of Boot- Topping)	Black (Antifouling From Keel To Top Of Boot- Topping)	Red (Antifouling, Boot-Top Only!)
Black Hull (Salt-Water Boats W/O Boot- Topping)	Red (Anticorrosive From Keel To Waterline)	Gray (Anticorrosive From Keel To Top Of Boot- Topping)	Black (Antifouling From Keel To Waterline)	Red (Antifouling From Keel To Waterline)	Not Applicable
White Hull (Fresh-Water Boats W/Boot-Topping)	Black (Anticorrosive From Keel To Top Of Boot- Topping)	Red (Anticorrosive From Keel To Top Of Boot- Topping)	Black (Anticorrosive, Boot- Topping Only)	Not Applicable	Not Applicable
White Hull (Fresh-Water Boats/W/O Boot- Topping)	Red (Anticorrosive From Keel To Waterline)	Black (Anticorrosive From Keel To Waterline)	Not Applicable	Not Applicable	Not Applicable
Black Hull (Fresh-Water Boats W/Boot-Topping)	Red (Anticorrosive From Keel To Top Of Boot- Topping)	Gray (Anticorrosive From Keel To Top Of Boot- Topping)	Red (Anticorrosive, Boot- Topping Only!)	Not Applicable	Not Applicable

TABLE IV. COLOR SCHEME FOR UNDERWATER BODY (U/W BODY) AND BOOT-TOP SURFACES IN RELATION TO FREEBOARD TOP COATING COLOR (Continued)

FREEBOARD COLOR AND SERVICE	1ST COAT	2ND COAT	3RD COAT	4TH COAT	5TH COAT
Black Hull (Fresh-Water Boats W/O Boot-Topping)	Gray (Anticorrosive From Keel To Waterline)	Red (Anticorrosive From Keel To Waterline)	Not Applicable	Not Applicable	Not Applicable
Black Hull (Salt Water Icebreakers W/Boot-Topping)	Gray (Anticorrosive From Keel To Top Of Boot- Topping)	Black (Anticorrosive From Keel To Top Of Boot- Topping)	Red (Antifouling From Keel To Top Of Boot- Topping)	Black (Antifouling From Keel To Top Of Boot- Topping)	Red (Antifouling Over Boot- Topping Only!)
Black Hull (Salt-Water Icebreakers W/O Boot-Topping)	Gray (Anticorrosive From Keel To Waterline)	Red (Anticorrosive From Keel To Waterline)	Black (Antifouling From Keel To Waterline)	Red (Antifouling From Keel To Waterline)	Not Applicable
Black Hull (Fresh Water Icebreakers W/Boot-Topping)	Gray (Anticorrosive From Keel To Top Of Boot- Topping)	Black (Anticorrosive From Keel To Top Of Boot- Topping)	Red (Anticorrosive, Boot- Topping Only!)	Not Applicable	Not Applicable
Black Hull (Fresh Water Icebreakers W/O Boot- Topping)	Gray (Anticorrosive From Keel To Top Of Boot- Topping)	Red (Anticorrosive From Keel To Top Of Boot- Topping)	Not Applicable	Not Applicable	Not Applicable
Red Hull (CGC Mackinaw)	Gray (Anticorrosive From Keel To Top Of Boot- Topping)	Red (Anticorrosive From Keel To Top Of Boot- Topping)	Black (Anticorrosive, Boot- Topping Only)	Not Applicable	Not Applicable

TABLE V. TOP COATING COLORS FOR EXTERIOR MISCELLANEOUS DETAILS AND FITTINGS

ITEM	COLOR
Aerial - Drop Pump Canisters	International Orange (12197)
Alarms, Chemical	Green (14260)
Alarms, Collision	Yellow (13538)
Alarms, Emergency, Fire and General	Red (11105)
Applicators	Red (11105)
Applicator nozzles	Polish
Awning Ridgepoles and Stanchions	White (17925)
Battle Lanterns	As manufactured or Yellow (13538)
Bits, side, mounted on gunwales on harbor tugs	Black (17038)
Bits, side, mounted on gunwales on seagoing tugs	Spar (10371)
Bits, mooring and towing	Spar (10371) ¹
Blocks (except those in black areas on mast or stack)	Spar (10371) ¹
Blocks, in black area on mast or stack	Black (17038) ¹
Blocks, traveling or fall type, and related swivels and headache balls made of corrosion resistant material.	Painting not required; outline major component with Yellow, or Yellow/Black stripe safety tape/edging. Yellow (13538) if painted.

Notes: In general, miscellaneous objects whose color is not specifically prescribed elsewhere in these instructions shall be painted white (17925) if attached or immediately adjacent to some part of the superstructure that is also painted white. They shall be painted spar (10371) if attached or immediately adjacent to masts, spars, or other objects whose prescribed color is spar. Objects standing alone on the deck shall be spar. Stumbling hazards, such as deck padeyes, deck clips, and other projections, shall be painted white for better night visibility.

1. Working surfaces in contact with wire rope or synthetic lines may be coated with gray or green-gray Inorganic Zinc.
2. Except that Ingersoll Rand TM standard air winches in use on WLIC/WLR platforms for spud or crossdeck winch service may be OEM factory applied black plasticized marine coating.
3. Except 41 foot UTB which shall have Spar (10371) handrails if painted.

TABLE V. TOP COATING COLORS FOR EXTERIOR MISCELLANEOUS DETAILS AND FITTINGS (Continued)

ITEM	COLOR
Blocks, traveling or fall type, and related swivels and headache balls made of non-corrosion resistant material.	Yellow (13538); or Yellow (13538)/Black (17038) stripe; or Spar (10371) with Yellow/ Black stripe safety tape/edging for large blocks.
Boom Cradle	Spar (10371) ¹
Booms, boat	Spar (10371)
Boarding Ladders	Spar (10371)
Boarding Ladders, Wood	Do not paint. Coat with linseed oil.
Brightwork	Polish and coat with clear plastic or lacquer
Canvas or fabric covers, removable	No coating. Color of fabric to match color of item covered
Capstans	Spar (10371) ¹
Chocks, brass/bronze	Uncoated
Chocks, bulwark	Bulwark color ¹
Chocks, except bulwark and roller type	Spar (10371) ¹
Chocks, Roller	Black (17038) ¹
Compass Stands, except binnacle and bright work	White (17925), Optional Blue Grey (16099); Commanding Officer's Discretion

Notes: In general, miscellaneous objects whose color is not specifically prescribed elsewhere in these instructions shall be painted white (17925) if attached or immediately adjacent to some part of the superstructure that is also painted white. They shall be painted spar (10371) if attached or immediately adjacent to masts, spars, or other objects whose prescribed color is spar. Objects standing alone on the deck shall be spar. Stumbling hazards, such as deck padeyes, deck clips, and other projections, shall be painted white for better night visibility.

1. Working surfaces in contact with wire rope or synthetic lines may be coated with gray or green-gray Inorganic Zinc.
2. Except that Ingersoll Rand TM standard air winches in use on WLIC/WLR platforms for spud or crossdeck winch service may be OEM factory applied black plasticized marine coating.
3. Except 41 foot UTB which shall have Spar (10371) handrails if painted.

TABLE V. TOP COATING COLORS FOR EXTERIOR MISCELLANEOUS DETAILS AND FITTINGS (Continued)

ITEM	COLOR
Cranes, Booms, and Frames	Spar (10371)
Davits, all type	Spar (10371)
Deck chests	White (17925)
Deck Machinery, controls and control stand, and equipment safety bumpers	Spar (10371) ^{1, 2}
Deck treads, Non Skid	No coating
Diaphones	Spar (10371)
Dodgers, Canvas	Fabric color to be blue or white; Commanding Officer's Discretion
Dogs	Grease moving parts, do not Paint. Do not grease oil tight bearings, add oil if required.
Flag Staffs (on white hulls)	Spar (10371)
Flag Staffs (on black & red hulls)	Spar (10371)
Fire Pumps	Red (11105)
Firemain valves, (except threaded and machined parts)	Red (11105)
Flag lockers	White (17925)
Foam valves and outlets (AFFF)	1" wide diagonal stripes, approximately 45° alternating Red (11105) and Green (14062)

Notes: In general, miscellaneous objects whose color is not specifically prescribed elsewhere in these instructions shall be painted white (17925) if attached or immediately adjacent to some part of the superstructure that is also painted white. They shall be painted spar (10371) if attached or immediately adjacent to masts, spars, or other objects whose prescribed color is spar. Objects standing alone on the deck shall be spar. Stumbling hazards, such as deck padeyes, deck clips, and other projections, shall be painted white for better night visibility.

1. Working surfaces in contact with wire rope or synthetic lines may be coated with gray or green-gray Inorganic Zinc.
2. Except that Ingersoll Rand TM standard air winches in use on WLIC/WLR platforms for spud or crossdeck winch service may be OEM factory applied black plasticized marine coating.
3. Except 41 foot UTB which shall have Spar (10371) handrails if painted.

TABLE V. TOP COATING COLORS FOR EXTERIOR MISCELLANEOUS DETAILS AND FITTINGS (Continued)

ITEM	COLOR
Gangplanks, metal, except aluminum	White (17925)
Gangplanks, aluminum	No coating
Gasoline cans, portable	Red (11105)
Gasoline drums	Yellow (13538) with "GASOLINE" in Black (17038) letters
Gasoline storage racks	Color of bulkhead
Handrails and lifeline stanchions	White (17925) ³
Hatch coamings	Spar (10371)
Hatch covers	White (17925)
Hooks, boat davit, crane or cargo boom, and related swivels and headache balls; corrosion resistant material	Painting not required; outline major component with Yellow, or Yellow/Black stripe safety tape/edging. Yellow (13538) if painted.
Hooks, boat davit, crane or cargo boom, and related swivels and headache balls; other than corrosion resistant material	Yellow (13538); or Yellow (13538)/Black (17038) stripe
Hose racks, saddles and reels for fire hose	Red (11105)

Notes: In general, miscellaneous objects whose color is not specifically prescribed elsewhere in these instructions shall be painted white (17925) if attached or immediately adjacent to some part of the superstructure that is also painted white. They shall be painted spar (10371) if attached or immediately adjacent to masts, spars, or other objects whose prescribed color is spar. Objects standing alone on the deck shall be spar. Stumbling hazards, such as deck padeyes, deck clips, and other projections, shall be painted white for better night visibility.

1. Working surfaces in contact with wire rope or synthetic lines may be coated with gray or green-gray Inorganic Zinc.
2. Except that Ingersoll Rand TM standard air winches in use on WLIC/WLR platforms for spud or crossdeck winch service may be OEM factory applied black plasticized marine coating.
3. Except 41 foot UTB which shall have Spar (10371) handrails if painted.

TABLE V. TOP COATING COLORS FOR EXTERIOR MISCELLANEOUS DETAILS AND FITTINGS (Continued)

ITEM	COLOR
Hull numbers and markings	White (17925) over black background Black (17038) over white and red backgrounds
Insulators, Electrical	No coating
Jack staffs (on white hulls)	Spar (10371)
Jack staffs (on black and red hulls)	Spar (10371)
Knife edges on watertight doors and hatches	Do not paint. Clean with aluminum oxide abrasive cloth, grit #320
Ladders, except those on masts	White (17925)
Ladders, leading from Buoy Deck	Black (17038)
Ladders, on masts	Spar (10371)
Leather coverings	Oil with preservative, neat's-foot 0-L-165
Name plates	No coating
Pelorus pedestals	White (17925)
Pilot House Visor, underside	White (17925) or Blue Grey (16099); Commanding Officer's Discretion
Probe, refueling	Black (17038)
Pump, gasoline powered	Yellow (13538)
Ready service lockers	White (17925)

Notes: In general, miscellaneous objects whose color is not specifically prescribed elsewhere in these instructions shall be painted white (17925) if attached or immediately adjacent to some part of the superstructure that is also painted white. They shall be painted spar (10371) if attached or immediately adjacent to masts, spars, or other objects whose prescribed color is spar. Objects standing alone on the deck shall be spar. Stumbling hazards, such as deck padeyes, deck clips, and other projections, shall be painted white for better night visibility.

1. Working surfaces in contact with wire rope or synthetic lines may be coated with gray or green-gray Inorganic Zinc.
2. Except that Ingersoll Rand TM standard air winches in use on WLIC/WLR platforms for spud or crossdeck winch service may be OEM factory applied black plasticized marine coating.
3. Except 41 foot UTB which shall have Spar (10371) handrails if painted.

TABLE V. TOP COATING COLORS FOR EXTERIOR MISCELLANEOUS DETAILS AND FITTINGS (Continued)

ITEM	COLOR
Release mechanisms	Grease
Rigging, running	Lubricate per COMDTINST M9000.6 Chapter 613.
Rigging, standing	Lubricate per COMDTINST M9000.6 Chapter 613.
Searchlights, except on masts	White (17925)
Searchlights, on masts	Spar (10371)
Searchlight shutters	No coating
Sheaves	Block color or Spar (10371) ¹
Spray shield on bridge, inboard	White (17925) or Blue Grey (16099); Commanding Officer prerogative
Spud	Black (17038)
Towing bits See: Bits, towing	
Towing rail (corrosion resistant material)	No coating
Turtle Back (distinct area adjacent to superstructure where cargo handling gear is attached to deck)	Black (17038)
Ventilators, all types, including gooseneck pipe vents, not attached or immediately adjacent to the superstructure	Spar (10371)
Ventilators/ducts for engine room, not attached to superstructure on 82 WPB.	White (17925)

Notes: In general, miscellaneous objects whose color is not specifically prescribed elsewhere in these instructions shall be painted white (17925) if attached or immediately adjacent to some part of the superstructure that is also painted white. They shall be painted spar (10371) if attached or immediately adjacent to masts, spars, or other objects whose prescribed color is spar. Objects standing alone on the deck shall be spar. Stumbling hazards, such as deck padeyes, deck clips, and other projections, shall be painted white for better night visibility.

1. Working surfaces in contact with wire rope or synthetic lines may be coated with gray or green-gray Inorganic Zinc.
2. Except that Ingersoll Rand TM standard air winches in use on WLIC/WLR platforms for spud or crossdeck winch service may be OEM factory applied black plasticized marine coating.
3. Except 41 foot UTB which shall have Spar (10371) handrails if painted.

TABLE VI. COLORS FOR INTERIOR SURFACES

INTERIOR SPACE	1ST COAT ^{1,2}	2ND COAT	3RD COAT	TOPCOAT ³
Bilges and Cofferdams	Light Gray (26373)	-	-	Red (20152)
Bulkheads, Firezone	Green (24272)	-	-	White (27875)
Bulkheads and Overheads, Uninsulated Aluminum	Green (24272)	-	-	Soft White (27780) or Pastel Green (24585)
Bulkheads and Overheads, Uninsulated Steel	Green (24272)	Light Gray (26373)	-	Soft White (27780) or Pastel Green (24585)
Bulkheads and Overheads, Uninsulated Metal-wet areas	Green (24272)	-	-	As required
Bulkheads and Overheads, Uninsulated Steel/Aluminum-appearance not a factor	Green (24272)	-	-	Gray (26270)
Chain Lockers	-	-	-	Gray (26270)
Condensation, Space Subjected to	Light Gray (26373)	Green (24272)	Light Gray (26373)	Soft White (27780) or Pastel Green (24585)
Deckplates, Steel/Aluminum (Bottom and edges)	-	-	-	Gray (26270)
Decks, Steel/Aluminum-wet areas	Green (24272)	-	-	Color as required
Decks, Steel/Aluminum-dry areas and non-skid	Green (24272)	-	-	Deck Red (10076) or Light Gray (16251)
Doors, Joiner	Green (24272)	-	-	Soft White (27780) or Pastel Green (24585)

Notes:

1. Mist coats are not included.
2. Color of underlying primer coat(s) is not critical, however, each coat should provide color contrast to ensure complete coverage during application.
3. Applies to final two coats of coatings such as MIL-PRF-24596 Fire Retardant, and MIL-PRF-46081 Intumescent Epoxy.

TABLE VI. COLORS FOR INTERIOR SURFACES (Continued)

INTERIOR SPACE	1ST COAT ^{1,2}	2ND COAT	3RD COAT	TOPCOAT ³
Electric Cable, Armored	Green (24272)	-	-	Match adjacent bulkhead
Furniture and Galley Equip.	Green (24272)	-	-	Soft White (27780) or Pastel Green (24585)
Inaccessible Areas, Steel/Aluminum	Green (24272)	-	-	Gray (26270)
Insulation Surfaces, Fiberglass Sheet	-	-	-	Soft White (27780) or Pastel Green (24585)
Insulation Surfaces, Closed Cell PVC	White	-	-	White (May be tinted to match adjacent bulkhead)
Machinery, Operating Temp. < 200°F	Green (24272)	-	-	Gray (26307) or match OEM color
Machinery, Operating Temp. > 200°F	-	-	-	White (May be tinted to match adjacent bulkhead)
Piping, Insulated/Uninsulated < 200°F	-	-	-	White (May be tinted to match adjacent bulkhead)
Piping, Uninsulated > 200°F	-	-	-	Aluminum
Tanks and Voids, General	Use appropriate system from MIL-P-23236. Choose white as topcoat unless it is not manufactured in that color. Undercoats should be contrasting colors.			
Wood, Painted Interior	Green (24272)	-	-	Soft White (27780) or Pastel Green (24585)
Wood, Stained and Varnished Interior	Choose appropriate stain from list for TT-S-711			

Notes:

1. Mist coats are not included.
2. Color of underlying primer coat(s) is not critical, however, each coat should provide color contrast to ensure complete coverage during application.
3. Applies to final two coats of coatings such as MIL-PRF-24596 Fire Retardant, and MIL-PRF-46081 Intumescent Epoxy.

TABLE VII. PIPING SYSTEM IDENTIFICATION COLOR CODE

PIPING CONTENTS	VALVE HANDWHEEL/ OPERATING LEVER	FED STD 595 COLOR NUMBER
Steam	White	(17875)
Potable Water	Dark Blue	(15044)
Nitrogen	Light Gray	(16376)
H.P. Air	Dark Gray	(16081)
L.P. Air	Tan	(10324)
Oxygen	Light Green	(14449)
Salt Water	Dark Green	(14062)
JP-5	Purple	(17142)
Fuel Oil/Gasoline	Yellow	(13538)
Lube Oil	Striped Yellow/Black	(13538)/(17038)
Firemain & Plugs	Red	(11105)
AFFF (Foam)	Striped Red/Green	(11105)/(14062)
Feedwater	Light Blue	(15200)
Hydraulic Fluid	Orange	(12246)
Refrigerants	Dark Purple	(17100)
Hydrogen	Chartreuse	(23814)
Cleaning Fluid	Brown	(10080)
Helium	Buff	(10371)
Helium/Oxygen	Striped Buff/Green	(10371)/(14449)
Sewage	Gold	(17043)
Halon	Striped Gray/White	(16187)/(17875)

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QA-1. QUALITY ASSURANCE INSPECTION FORM
ENVIRONMENTAL READINGS

(Use one sheet for each activity. Record conditions every four hours)

DATE	TIME	ENTER ACTIVITY (Surface preparation, primer coat, barrier coat, top coat, etc...)	LOCATION	WET BULB TEMP	DRY BULB TEMP	% REL. HUMIDI TY	DEW POINT	SIGNATURE OF INSPECTOR

QA-2. QUALITY ASSURANCE INSPECTION FORM
SURFACE PROFILE LOG

Vessel Name And Hull Number: _____
 Work Item Title: _____
 Location Of Work (Including Frame Numbers): _____
 Area (Square Feet): _____
 Surface Preparation Method: _____
 Abrasive Manufacturer And Size: _____
 Degreasing Method Used: _____
 Number Of Hours Surfaces (Steel Only) Left Unpainted: _____
 Sweep blasting performed to remove flash rusting (steel)? Yes/No: _____

Place Surface Profile Replica Tapes In The Spaces Provided Below, To Serve As Permanent QA record. Maintain separate log for each area/location. When an area is divided into separate sections, maintain a separate log for each section.		AVERAGE MILS (IAW ASTM D4417, METHOD C)
Place Surface Profile Replica Tale Here Reading: _____ mils	Place Surface Profile Replica Tale Here Reading: _____ mils	
Place Surface Profile Replica Tale Here Reading: _____ mils	Place Surface Profile Replica Tale Here Reading: _____ mils	
Place Surface Profile Replica Tale Here Reading: _____ mils	Place Surface Profile Replica Tale Here Reading: _____ mils	
Place Surface Profile Replica Tale Here Reading: _____ mils	Place Surface Profile Replica Tale Here Reading: _____ mils	

Date and Time: _____
 Location of Surface Profile Measurements: _____
 Signature of Inspector: _____

QA-4. QUALITY ASSURANCE DATA FORM
WET FILM THICKNESS MEASUREMENTS
 (Use one sheet for each sequence)

Vessel Name and Hull Number: _____
 Work Item Title: _____ Coating
 Manufacturer: _____
 Product Name: _____
 Batch Number: _____
 Induction Time: _____
 Coating System Sequence (Indicate whether: primer, touch-up primer, barrier coat, 3rd coat...): _____

WET FILM THICKNESS (WFT) MEASUREMENT NUMBER	LOCATION OF READINGS	WFT MEASUREMENT (IAW ASTM D4414)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

Application Method (Airless, Conventional Spray, Rolled): _____
 Average Wet Film Thickness: _____
 Date and Time: _____
 Signature of Inspector: _____

QA-5: QUALITY ASSURANCE INSPECTION FORM
TECH REP SIGN OFF LOG

Vessel Name and Hull Number: _____

Work Item Title: _____

Name of Tech Rep: _____

Date Arrived at Project Location: _____

Name of Coating System Being Applied: _____

Stage of Coating Application	Tech Rep's Initials	Comments or Concerns
Surface Profile Check		
Chloride Check		
Primer Coat		
Primer Touch-up Coat		
Barrier Coat		
Barrier Touch-up Coat		
1st Top Coat		
Touch-up Coat of 1st Top Coat		
2 nd Top Coat		
Touch-up Coat of 2nd Top Coat		
3rd Top Coat		
Touch-up Coat of 3rd Top Coat		

Signature of Inspector: _____

Date Left Project Location: _____

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