

context of the project.

An "S" following a submittal item indicates that the submittal is required for the Sustainability Notebook to fulfill federally mandated sustainable requirements in accordance with Section 01 33 29 SUSTAINABILITY REPORTING.

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are [for Contractor Quality Control approval.][for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] Submittals with an "S" are for inclusion in the Sustainability Notebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-03 Product Data

Manufacturer's Catalog Data[; G]

SD-07 Certificates

A Safety Plan[; G]

1.2 QUALITY CONTROL

1.2.1 Personnel Safety

Take necessary precautions in accordance with OSHA regulations to ensure safety of personnel engaged in these operations and personnel who may be affected by such operations. Some of the materials to be handled under this specification are combustible or toxic. Using material safety information provided by the manufacturer, provide equipment as required for safe application and instructing the users regarding the hazards and proper handling procedures to prevent damage to health or possible explosion.

Submit a [safety plan](#) for protective coating systems in accordance with OSHA regulations.

1.3 DELIVERY, STORAGE, AND HANDLING

Deliver materials in their original, unbroken containers bearing the manufacturer's name, product identification, and batch number.

Store coatings, thinners, and cleaners in tightly closed containers in a covered, well-ventilated area where they are not exposed to extreme cold or heat, sparks, flame, direct sunlight, or rainfall.

PART 2 PRODUCTS

This section covers materials, surface preparation, and the application of a protective coating on stainless steel.

2.1 MATERIALS

2.1.1 Protective Coatings

[Submit [manufacturer's catalog data](#) for nitrile rubber base aluminum pigmented coating.

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NOTE: Ensure that this material is included in the contract schedule for GFP.

It is available from KSC Central Supply under FSN 8030-00-485-3656.

A nitrile rubber, aluminum pigmented protective coating is provided as government-furnished property (GFP) in accordance with the contract schedule for GFP.

]PART 3 EXECUTION

3.1 PREPARATION

3.1.1 Protection Of Equipment And Adjacent Surfaces

Protect all equipment and adjacent surfaces that may be damaged as a result of any phase of this work.

3.1.2 Surface Preparation

Ensure all painted surfaces are clean, dry, and free from oil, grease, dirt, dust, corrosion, peeling paint, and any other surface contaminants.

Prepared and coated while accessible, surfaces that become inaccessible after installation of hardware or components.

Prepare coated surfaces before recontamination can occur. Sequence surface preparation and coating operations so that freshly applied coatings are not contaminated by dust or foreign matter.

3.1.3 Inspection Of Surface Preparation

Contracting Officer to inspect and determine compliance with the specification for surface preparation immediately after the surface has been prepared. Reclean any areas not meeting the surface preparation requirements until approved. Apply no coatings until the surface preparation has been approved.

3.2 APPLICATION

Application and handling characteristics of all coatings vary. To obtain optimum performance, adequate instructions from the manufacturer are essential and closely followed, in conjunction with the requirements of this specification.

Manufacturer's recommendations for thinning, mixing, handling, and applying this product are considered a part of this specification. In the event of conflict between the requirements of this specification and the manufacturer's recommendations, this specification takes precedence.

Use compressed air free of moisture and oil for spraying coatings.

Ensure each coat of material applied is free from runs, sags, blisters, bubbles, variations in color, gloss and texture, holidays (missed areas), excessive film build, foreign contaminants, dry overspray, etc.

Do not apply coating when rain is imminent or when the temperature or humidity is outside the limits recommended by the coating manufacturer.

Thoroughly work all coatings into all joints, crevices, and open spaces.

Adequately protect all newly coated surfaces from damage.

To prevent moisture condensation during application, ensure surface temperature is at least 3 degrees C 5 degrees F above the dew point.

Apply all coatings by airless spray, conventional spray, or by brush. Use airless spray for large surface areas. Conventional spray and brushes may be used for small areas of intricate configuration and touchup.

3.2.1 Mixing and Application Procedures

WARNING

THE USE OF COATING MATERIALS CONTAINING HALOGENATED HYDROCARBONS WITH COATING APPLICATION EQUIPMENT THAT HAS ALUMINUM OR GALVANIZED PARTS MAY CAUSE AN EXPLOSION.

1,1,1-TRICHLOROETHANE AND METHYLENE CHLORIDE ARE TWO TYPES OF HALOGENATED HYDROCARBONS USED AS SOLVENTS IN COMPLIANCE COATINGS, COMPLIANCE SOLVENTS, AND CERTAIN PAINT STRIPPERS AND ADHESIVES. THESE MATERIALS REACT UNPREDICTABLY WITH ALUMINUM AND GALVANIZED PARTS AND MAY CAUSE CORROSION, WEAKENING OF PARTS, AND SEVERE EXPLOSIONS.

DO NOT USE SOLVENTS OR COATINGS CONTAINING 1,1,1-TRICHLOROETHANE OR METHYLENE CHLORIDE WITH COATING APPLICATION EQUIPMENT (INCLUDING GUNS, PUMPS, AND PRESSURE TANKS) WHERE ALUMINUM OR GALVANIZED PARTS COME IN CONTACT WITH THE SOLVENT OR COATING MATERIAL.

USE ONLY EQUIPMENT MADE OF STEEL OR CORROSION-RESISTANT STEEL WHEN USING HALOGENATED SOLVENTS OR COATINGS.

Stir material thoroughly with a mixing instrument such as a Jiffy Mixer, manufactured by the Jiffy Mixer Company, Inc., San Francisco, California, or equal. Power the mixer by an air motor or an explosion-proof electric motor.

Strain the mixed material through a 600 to 250 micrometer 30 to 60 mesh screen.

Provide periodic slow agitation during application to maintain uniform suspension. Avoid continuous rapid agitation.

Thin for workability and improved spray characteristics only. Use only the manufacturers' recommended thinner and amount.

Adjust spray equipment to produce an even wet coat with minimum overspray.

Apply in even parallel passes, overlapping 50 percent to provide complete and uniform coverage. Pay special attention to welds, cut-outs, sharp edges, rivets, crevices, and bolts to ensure proper coverage.

When used, keep the pressure pot, at the same level or above the spray gun for proper material delivery.

3.2.2 Dry-Film Thickness (DFT)

Apply coatings to the dry-film thickness sufficient to provide complete coverage and hiding of the substrate.

3.2.3 TOUCHUP

Touch up abrasions and scratches as follows:

- a. Sand lightly to smooth and feather the edges of damaged areas.
- b. Apply additional nitrile rubber coating

Blend in touched-up areas with the surrounding coating.

3.3 FIELD QUALITY CONTROL

Contracting Officer will inspect work as described for compliance with this specification.

In addition, allow for inspection of the work to ensure that specification requirements have been fulfilled.

-- End of Section --