

DESCRIPTION

This work includes preparing and painting existing and new chain link fence posts, rails, fittings, and other frame components in accordance with the contract documents and as directed by the Engineer.

MATERIALS

The entire rehabilitated framework, both new and weathered components shall receive more than (1) coat of paint except as noted below for galvanized and aluminum components. Color and gloss of the finish coat shall be as specified in the contract documents. All coats of paint used shall be produced by the same manufacturer. Selection of undercoat colors is left to the discretion of the contractor except that each single paint coat shall be a color different from the others and shall be approved by the Engineer.

New or Aged Galvanized components: Section 708-06 Paint for Galvanized Surfaces

For Aluminum Components: Section 708-07 Paint for Aluminum Surfaces

Previously Painted Surfaces in Sound Condition:

First and Second Coat: Coating shall be either a modified or silicone alkyd, having a dry film thickness of 50 μ (each coat). Paint requires eighteen (18) hours drying time @ 25 degrees C.

For Weathered or Rusty Steel:

First Coat: The first coat shall be a Primer. Primer shall be a fast drying, 81% +/- 2% weight solids, VOC compliant, rust inhibiting, modified alkyd metal primer with a dry film thickness of 75-100 μ . Paint requires two and a half (2.5) hours drying time before recoating (with alkyds). Performance shall meet or exceed the standards of Federal Specification TT-P_86H, Type III and Type IV, and TT-P-664D.

The entire rehabilitated framework shall have two topcoats applied over the primer:

Second and Third Coat: Coating shall be either a modified or silicone alkyd, having a dry film thickness of 50-100 μ (each coat). Paint requires eighteen (18) hours drying time @ 25 degrees C.

CONSTRUCTION DETAILS

Existing rehabilitated chain link fence framework shall be painted after removals and rehabilitation have been performed to the framework and prior to installation of new chain link fabric.

The framework may be painted with the original fabric in place, if the fabric is not required to be replaced

Painting Preparation:

For new galvanizing or aluminum: a light sanding shall be given to all surfaces and then solvent wiped according to SSPC SP-1 Solvent Cleaning. The sanding is to remove all

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visible and invisible zinc and aluminum oxides immediately prior to applying the first coat of paint. In lieu of sanding, the surfaces can be lightly abraded using soft abrasives in a shop setting. This would result in a more uniform anchor pattern for the paint.

For weathered galvanized surfaces: a pressure wash shall be performed, followed by a solvent cleaning according to SSPC SP-1. For all previously painted and/or areas of rusty steel:

Immediately prior to painting, all surfaces of framework shall be thoroughly clean in accordance with guidelines recommended by The Society for Protective Coatings (SSPC). All surfaces shall be cleaned in accordance with SP-1, Solvent Cleaning. Cleaning shall be performed with a solvent such as mineral spirits, xylol or toluol to remove all dirt, grease and foreign matter. Surfaces that show evidence of loose mill scale, non-adherent rust, peeling paint and other deleterious matter shall be cleaned in accordance with SSPC SP-2, Hand Tool Cleaning, a method generally confined to wire brushing, sandpaper, hand scrapers or hand impact tools or SSPC SP-3, Power Tool Cleaning, a method generally confined to power wire brushes, impact tools, power sanders and grinders in order to achieve a sound substrate. Paint shall be applied immediately after a final SP-1 solvent cleaning and drying.

Once all forms of corrosion and old loose paint are removed, with only tight rust and properly feathered adherent paint remaining, all surfaces to be painted, including galvanizing, shall be lightly abraded to produce an anchor profile for the new paint. A test patch of new paint over all the various substrates should be performed and allowed to cure for at least 3 days in proper weather prior to testing for adhesion by cutting into the paint and trying to lift it up with a knife edge. The new paint is allowed to shred under the knife edge but should not debond.

Application Of Paint: Painting shall be done in accordance with Section 573 – “Structural Steel Painting: Field Applied – Total Removal”

All painting shall be done in a neat and workmanlike manner. The paint shall be applied by brush, and thoroughly worked into the surface and into all cracks and fissures without leaving fins or runs. If the colors of the primer and/or intermediate coat show through the finish coat, additional coats of the approved finish coat paint shall be applied at no extra cost to the state until the undercoat colors are completely masked and the finish coat color matches the approved color chip.

Drop cloths shall be used to protect existing ground surfaces and adjacent appurtenances. When applying the paint the contractor shall take care to protect all adjacent surfaces of curbs and pavements from paint spatters and spills. Any spatters or spills are to be removed immediately, using appropriate solvents as needed.

All paint shall be properly stored at temperatures within that dictated by the product data sheet for storage. All paint shall be properly mixed prior to its use. If the paint is multi component, the components shall be mixed in full kits – no use of partial kits is allowed. The paint shall be

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within its shelf life as stated in product data sheet. If batch code is ciphered, the manufacturer should be contacted for deciphering the batch date. To prevent different shades of color, all of the topcoat paint should be of the same batch or tinted at the same time.

All paints shall be applied when ambient air temperature is 10 degrees C. and rising and surfaces to be painted are moisture free. No painting will be allowed below the minimum ambient air temperature.

In addition, no painting will be allowed below the temperature at which moisture will condense on surfaces.

Submittals:

1. Samples - The Contractor shall submit duplicate paint chips showing color and gloss to the Engineer for approval prior to starting painting work.
2. Paint Substitution - A written request for paint substitution must be submitted to the Engineer. The Contractor shall submit this request, along with manufacturer's data sheets for approval, a minimum of two (2) weeks prior to the intended date of paint application. All paint substitutions must be approved in writing prior to use.

METHOD OF MEASUREMENT

This work will be measured as the number of meters of PAINT CHAIN LINK FENCE FRAMEWORK (NYCDPR) of each height measured along the base, starting with the a post and ending with a post and painting all rails and all miscellaneous hardware in between prepared and painted.

BASIS OF PAYMENT

The unit price bid for each height of fence framework, with or without fabric attached, to be prepared and painted shall include the cost of all labor, materials, equipment, and incidentals necessary in accordance with the contract documents and the directions of the Engineer.

Payment will be made under:

Item No.	Item	Pay Unit
607.5001	11 Paint Chain Link Fence Framework (NYCDPR) – 1.22 M High	Meter
607.5002	11 Paint Chain Link Fence Framework (NYCDPR) – 1.83 M High	Meter
607.5003	11 Paint Chain Link Fence Framework (NYCDPR) – 2.44 M High	Meter
607.5004	11 Paint Chain Link Fence Framework (NYCDPR) – 3.05 M High	Meter
607.5005	11 Paint Chain Link Fence Framework (NYCDPR) – 3.66 M High	Meter
607.5006	11 Paint Chain Link Fence Framework (NYCDPR) – 4.27 M High	Meter
607.5007	11 Paint Chain Link Fence Framework (NYCDPR) – 4.88 M High	Meter
607.5008	11 Paint Chain Link Fence Framework (NYCDPR) – 5.49 M High	Meter
607.5009	11 Paint Chain Link Fence Framework (NYCDPR) – 6.10 M High	Meter