

ITEM 570.3335 25 - LOCALIZED CLEANING AND PAINTING AT STEEL REPAIRS

1. DESCRIPTION:

- 1.01 The work shall include all cleaning, surface preparation and painting or repainting of localized areas of steel at locations designated on the plans to be repaired or replaced, or as directed by the Engineer.
- 1.02 All work must be performed in accordance with the applicable NYSDOT Standard Specifications, except as modified herein.

2. MATERIALS:

- 2.01 The paint system shall be either a zinc rich moisture cured urethane primer, micaceous iron oxide filled moisture cured urethane intermediate coat and moisture cured urethane finish coat or an organic zinc rich primer, epoxy intermediate coat and urethane finish coat. The primer shall meet the requirements of AASHTO Class B, slip coefficient of not less than 0.50. The Contractor shall provide the Engineer with two copies of the manufacturer's certification stating that the paint meets the above requirements.

The color of each coat shall contrast with the other new coats. The finish coat shall be as identified in the Painting Schedule. The Contractor shall submit color samples for approval prior to ordering material.

- 2.02 Acceptable moisture cure paint systems are manufactured by Wasser and Sherwin Williams. Acceptable zinc-epoxy-urethane systems are manufactured by Carboline, Sherwin Williams and PPG.
- 2.03 Abrasives, if used, shall be free of corrosion producing contaminants, oil, grease, soluble salts or other deleterious contaminants. Silica sand shall not be used. The abrasive must be of such size as to produce a uniform surface profile that is suitable for the application of the specified paint. The type of abrasive material may be selected by the Contractor providing all of the above requirements are met.

3. CONSTRUCTION DETAILS:

- 3.01 The Contractor shall conform to all Federal, State and local laws, rules and regulations during performance of the work.
- 3.02 All equipment to be used in the work must be in good operating condition and must be approved by the Engineer prior to placing it in service.

3.03 Paint Removal – Non Faying Surfaces

- A. All paint must be removed from within 4 inches (100 mm) of each steel repair location. Paint removal method shall be by 1) vacuum blast cleaning (dry abrasive blast cleaning using a closed cycle, recirculating abrasive system with compressed air blast nozzle and abrasive, with a vacuum for dust, paint and abrasive recovery) or 2) power tool cleaning using vacuum shrouded power tools. Vacuum blast cleaned surfaces shall conform to SSPC-SP6 Commercial Blast Cleaning and vacuum power tool cleaned surfaces shall conform to SSPC-SP11 Power Tool Cleaning to Bare Metal.

ITEM 570.3335 25 - LOCALIZED CLEANING AND PAINTING AT STEEL REPAIRS

3. CONSTRUCTION DETAILS: (cont'd)

3.03 Paint Removal – Non Faying Surfaces

- B. One of the Environmental Protection items shall be used to collect any paint chips or abrasives that are not captured by the vacuum recovery system.

3.04 Surface Preparation And Priming – Faying Surfaces

- A. All paint must be removed on the existing steel surface for each steel repair location plus 100 mm beyond the limits of the new steel. New steel surfaces shall be blast cleaned to near white metal (SSPC-SP10) and primed with a zinc rich primer. The surfaces of existing steel that will be in contact with new steel shall be: 1) blast cleaned to near white metal (SSPC-SP10) by vacuum blast cleaning or 2) power tool cleaned to bare metal (SSPC-SP11) using vacuum shrouded power tools. Environmental Protection items shall be used appropriately during surface preparation. The surfaces shall then be primed with a zinc rich primer. No additional coats shall be applied to faying surfaces.

3.05 Recleaning And Painting Non-Faying Surfaces Of Existing Steel

- A. After installation of new steel, non-faying surfaces of the new steel and adjacent non-faying surfaces of the existing steel from which paint had been removed shall be cleaned as necessary to conform to SSPC-SP6 (Commercial Blast) or SSPC-SP11 (Power Tool Cleaning To Bare Metal). A three coat paint system shall be applied to the surfaces.

- 3.06 All coatings shall be applied at dry film thicknesses recommended by the manufacturer. All coating shall be done in a neat, workmanlike manner with no runs, sags or drips.

4. METHOD OF MEASUREMENT:

- 4.01 Payment will be made at the lump sum price bid.

5. BASIS OF PAYMENT:

- 5.01 The lump sum price bid shall include the cost of all labor, materials, equipment, and access necessary to complete the cleaning, preparation and painting work required, unless otherwise specified in the Contract documents.
- 5.02 No payment will be made for repair of, or replacement of coating systems or other damaged material which was made necessary due to the Contractor's operations.
- 5.03 Environmental Protection and Treatment/Disposal of Paint Removal Waste shall be paid for under separate items.