

ITEM 570.3336--25 - LOCALIZED CLEANING AND PAINTING AT STEEL REPAIR AREAS

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, 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 consist of an organic zinc rich primer, epoxy intermediate coat and urethane finish coat.

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 zinc-epoxy-urethane systems are manufactured by Carboline, Sherwin Williams, Devoe, Ameron, Mercury and MAB.
- 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**
 - A. All rust must be removed before spot priming. 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.
 - B. When removing paint over land, the Environmental Ground Protection item shall be used to collect any paint chips or abrasives that are not captured by the vacuum recovery system. The Environmental Waterway Protection item shall be used for the same purpose when removing paint from surfaces over water.
- 3.04 Spot primer shall be applied only to areas that have been cleaned to bare metal.
- 3.05 A stripe coat of epoxy shall be applied to spot primed areas at edges, corners, bolts and nuts.
- 3.06 Intermediate and finish coat shall be applied in accordance with the manufacturer's recommendations.

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3. CONSTRUCTION DETAILS: (cont'd)

3.07 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.