

ITEM 09594.01 M – TIMBER PAINTING

DESCRIPTION

This work shall consist of the field cleaning and painting of new and existing timber members of an existing timber bridge with insecticide/fungicide and fire retardant coatings. Insecticide/fungicide coatings shall be applied first and allowed to dry before applying fire retardant coatings.

MATERIALS

Insecticide/fungicide and fire retardant coatings shall be of the type and material requirements as specified below or approved equal.

Insecticide/Fungicide

Coating A: Shell-Guard

Manufacturer: Perma-Chink Systems Inc. 1-800-548-3554
1605 Prosser Road
Knoxville, TN 37914

Distributor: NovaGuard Technologies, Inc. 1-888-822-5039
1605 Prosser Road 1-865-329-9900
Knoxville, TN 37914

Coating B: Bora-Care

Manufacturer: Nisus Fax: 423-577-5825
215 Dunavan Drive
Memphis, TN 37053

Distributor: Wood Care Systems Tel. 425-827-6000
75 Kirkland Ave. Tel. 800-827-3480
Kirkland, WA 98033

Fire Retardant

Fire retardant coatings shall be non-toxic, non-hazardous and water-based passing ASTM E84-01/ NFPA 255/ UL 723 “Standard Test Method for Surface Burning Characteristics of Burning Materials.” The following coatings, or an approved equal, are approved for use:

Coating #1: Nochar Fire Preventor (NFP) – penetrant (clear)

Manufacturer: Nochar Tel. 317-613-3046
8650 Commerce Park Place Fax. 317-613-3052
Indianapolis, IN 46268

Distributor: Crestline Industries, Inc. Tel. 410-654-9730
11436-B Cronridge Drive Fax: 410-654-9731
Owings Mills, MD 21117

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The areas around all joints shall be coated generously by spraying.

Areas of Fire Retardant Application – All interior timber surfaces including, but not limited to, roof rafters and boards, truss verticals and diagonals, upper lateral bracing, center arch and interior siding shall be cleaned and prepared as specified above under Surface Preparation and shall receive one application of Coating #1. This coating shall not be applied to the deck.

All exterior timber surfaces on the underside of the bridge including, but not limited to, truss chords, center arch, siding and siding returns shall be cleaned and prepared as specified above and shall receive one application of Coating #2.

General Application – The insecticide/fungicide and fire retardant coatings shall be applied in accordance with manufacturer's recommendations and shall not be subject to freezing temperatures before curing. All field cuts shall be retreated as required. The coatings shall not alter the color or texture of the existing timber members and elements. The Contractor shall verify with the Manufacturers that the coating products will not alter the color or texture of the timber members and elements. The Contractor and the Engineer in Charge shall jointly establish an inconspicuous test area to evaluate the proposed coatings for appearance. The Contractor shall not proceed with application of the coatings until the test has been performed and Engineer in Charge has provided the Contractor with a written notice to proceed with the work.

The Contractor shall obtain the services of a qualified technical advisor employed by coatings manufacturers to make at least one site visit at the start of the work to assist the Contractor and to verify the proper application of the coatings, or the applicator shall be trained and certified by the manufacturer as an authorized applicator of the coatings.

The applicator shall have the product data sheets and materials safety data sheets for the coatings to be used on hand prior to performing any work.

All painting shall be performed in a workmanlike manner, by experienced workers, in the manner recommended by the coating manufacturer and to the satisfaction of the Engineer.

Protective Measures – During cleaning and painting the Contractor shall provide appropriate measures (such as suitable protective coverings) to protect the public, the bridge structure, substructure, work area, river, etc. from coatings contamination and other damage due to the drippings, spatter and wind blown particles of coatings as well as falling objects, etc. The Contractor shall ensure that no coating is applied to the metal roof. It is recommended that all coatings on roof members be applied prior to installation of the roof. The Contractor shall be fully responsible for property damage or personal injury, which may result from operations incidental to field painting.

Waste Management – All rubbish, spent coatings debris and refuse of any kind resulting from the work shall be removed by the Contractor from the work area and adjoining premises upon completion of the work so as to leave the site in a condition satisfactory to the Engineer. During the progress of the work, the area shall be kept clean and clear of debris and waste material.

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METHOD OF MEASUREMENT

The quantities to be measured for payment shall be on a unit lump sum basis.

BASIS OF PAYMENT

Timber Painting shall be paid for at the Contract lump sum price bid, which price shall be full compensation for all materials, labor, equipment, services of coating manufacturer's representative and all incidentals necessary for the satisfactory performance of cleaning and painting work, as previously described. The cleaning, surface preparation and painting of the timber bridge shall include all materials, apparatus and labor necessary to install, equip and place into immediate operation the respective coatings called for in the Contract. Any apparatus, material and labor not specifically mentioned herein which may be found necessary to complete or perform any portion of the work in a satisfactory manner and in compliance with the requirements implied or intended in these Specifications shall be furnished by the Contractor without additional compensation. This shall include all materials, devices or methods peculiar to the apparatus or system furnished and installed by the Contractor and all items to be provided to the Town.

The lump sum price for this item shall also include full compensation for all materials, labor, equipment and incidentals necessary to protect workers, the public and the environment from contamination due to these operations.