

ITEM 559.9110--10 M - ANTI-GRAFFITI PROTECTIVE COATING

DESCRIPTION

Under this item, the Contractor shall clean, furnish and place anti-graffiti protective coating on noise barrier walls, retaining walls, bridge structures, barriers, or other concrete surfaces at locations indicated in the contract documents or approved by the EIC. Wood surfaces shall not be treated with anti-graffiti protective coating under this item.

The Contractor shall apply the protective coating on selected surfaces within the limits in the contract documents. In addition, the Engineer may order that certain areas receive increased coverage or new locations be added.

MATERIALS

The protective coating shall be a breathable, one component clear non-sacrificial urethane or acrylic water based formulation designed as an anti-graffiti solution.

The Contractor shall provide the manufacturer's product literature including surface preparation data, mixing, application, spread rates, storage and Volatile Organic Compounds (VOC) compliance certification.

All materials are to be approved by the Engineer and the Regional Landscape Architect before any work can begin.

CONSTRUCTION DETAILS

1. The selected surfaces shall be thoroughly cleaned of dust, dirt, grease, oil, loose materials or other objectionable materials before applying the protective coating. No sandblasting will be allowed. Anti-graffiti coating shall be applied as soon as practicable after cleaning is completed. If in the opinion of the Engineer, the surface has become soiled, or otherwise contaminated, prior to the application of the protective coating; the surface shall be re-cleaned at no additional cost to the State.
2. Surface and material temperatures shall be a minimum of 4°C or as recommended by the manufacturer.
3. Material shall be applied by brush, roller or low-pressure spray. The rolling shall be done only on smooth surfaces and at such a pace that no spinning of the roller or throwing off of protective coating material occurs when the roller is lifted from the surface. Coverage rate shall be as recommended by the manufacturer and as approved by the Engineer.
4. The protective coating shall be applied in a uniform manner to evenly coat all pores and textured areas. Extremely textured or porous surfaces will require a second coat. Unless otherwise designated by the Engineer, the protective coating shall be applied from

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column to column, post to post, and from bottom to a height of 2.5 m for noise barrier wall panels, and from joint to joint or scoremark to scoremark and from bottom to a height of 2.5 m for abutments, walls or other surfaces.

5. Avoid high wind and rain, prolonged exposure in summer sunlight, and keep from freezing 12 hours after application.
6. A test panel 1.5 m x 1.5 m shall be provided and coated to insure suitability, number of coats required, and desired results. The test panel application and results shall be inspected and approved by the Engineer and the Regional Landscape Architect.
7. All work must conform to the OSHA standards referred to in subsection 107-05 of the Standard Specifications.
8. No dilution can happen of dilution or cleaner.

METHOD OF MEASUREMENT

This work will be measured by the number of square meters of surface covered with the anti-graffiti coating applied, in accordance with this specification. Test panels prepared under this item will not be measured for payment.

BASIS OF PAYMENT

The unit price bid per square meter shall include the cost of furnishing all labor, materials and equipment necessary to prepare the surfaces and apply the coating in accordance with the contract documents and as directed by the Engineer. The cost of providing necessary test panels shall also be included in the price bid for this item.