

**ITEM 03559.10 M - SURFACE APPLIED CORROSION INHIBITOR FOR EXISTING BRIDGE DECKS**

**DESCRIPTION**

The work shall consist of furnishing and applying a surface applied corrosion inhibitor to the concrete bridge surfaces indicated on the contract plans. The Contractor shall select, furnish and apply one of the corrosion inhibiting deck sealers included in this specification.

**MATERIALS**

The surface applied corrosion inhibitor shall be one of the proprietary sealers listed below or equal as approved by the Engineer. The burden of proof will be on the Contractor and Manufacturer. The Engineer shall be given two (2) weeks to review an alternate material.

<u>Axim Post I/II</u> Manufactured by Axim Concrete Technologies, Inc., 8282 Middlebranch Road Middlebranch, Ohio 44652 1-800-899-8795.	<u>MCI-2020</u> Manufactured by Cortec Corporation 4119 White Bear Parkway St Paul, Minnesota 55110 1-800-426-7832.
---	---

**CONSTRUCTION DETAILS**

General - The Contractor shall provide the Engineer with the Manufacturer's written instructions for application at least five (5) working days before the start of work. The written instructions shall include at minimum the following details: surface preparation requirements, weather limitations, number of coats for optimal protection, application rate per coat or total amount of sealer per all coats, drying time between coats, and drying time or other requirements necessary before opening to traffic. If the manufacturer's details differ from the details in this specification, the more restrictive case shall be followed.

Only one brand sealer will be allowed for use on any one structure, regardless of the length or design of that structure.

Surface Preparation - Concrete surfaces indicated to receive the corrosion inhibitor shall be clean and dry prior to application. After all trash and debris has been collected and removed from the bridge deck, the surface shall be high pressure washed with clean, fresh water. The washing shall be adequate to remove all visible dirt, salt, animal waste and similar debris. All oil, grease or similar material which is not removed by pressure washing shall be removed by light brush blasting.

The equipment used for pressure washing and brush blasting shall be operated at pressures that do not cause damage to the bridge. All damage to the structure being worked on or to surrounding property shall be repaired by the Contractor at no cost to the state.

Weather Limitations - Work shall not be done during wet weather conditions nor when atmospheric conditions are such that unsatisfactory results will be produced. The Engineer shall be the sole determiner of favorable atmospheric conditions. No work shall be done when the deck surface or ambient temperatures are below freezing or expected to fall below freezing within 12 hours of application. Application by spray methods will not be permitted during windy conditions, if in the opinion of the Engineer unsatisfactory results will be obtained.

**ITEM 03559.10 M - SURFACE APPLIED CORROSION INHIBITOR FOR EXISTING BRIDGE DECKS**

Corrosion Inhibitor Application - The surface applied corrosion inhibitor shall be used as supplied by the Manufacturer without thinning or alteration, unless specifically required by the Manufacturer's written instructions. Thorough mixing of the sealer before and during its use shall be accomplished as recommended by the Manufacture.

The surface applied corrosion inhibitor can be applied to the concrete surface by spray, squeegee, roller, or brush unless otherwise excluded by the Manufacturer's instructions. Equipment for sealer application shall be clean of foreign materials and approved by the Engineer before use.

Regardless of Manufacturer's written instructions, a minimum of two (2) coats of corrosion inhibitor shall be applied to achieve uniform coverage. The total quantity of sealer applied by all coats shall be equal to the quantity required at the application rate specified in the Manufacturer's written instructions. The second and each additional coat shall be applied perpendicular to the previous coat. Care shall be taken when applying such that running or puddling does not occur. On sloping bridge decks, the corrosion inhibitor application shall progress from bottom to top. Care shall be taken to ensure the entire surface of the concrete is covered and all pores filled. The final coat shall be allowed to dry according to the Manufacturer's written instructions, before the removal of maintenance and protection of traffic.

**METHOD OF MEASUREMENT**

The work will be measured as the number of square meters of bridge deck coated with the surface applied corrosion inhibitor as stated in the Estimate of quantities. Except to provide for progress payments, no field measurements will be taken.

**BASIS OF PAYMENT**

The unit bid price per square meter shall include the cost of all labor, materials and equipment necessary to complete the work.

Payment will be made under:

<u>Item No.</u>	<u>Item</u>	<u>Pay Unit</u>
03559.10 M	Surface Applied Corrosion Inhibitor for Existing Bridge Decks	Square Meter