

ITEM 02555.0199 M - STAINING CURED CONCRETE

Description: This work shall consist of applying a water repellent color stain to cured and properly prepared concrete surfaces:

Material:

- A. **General** The color stain shall be standard grade Geotone Stain as manufactured by G.C.S. Coatings, Inc., Monaca, PA 15061 or an equivalent product approved by the Materials Bureau.

The color stain shall be 100% acrylic, water repellent stain which provides a uniform tint to the concrete surface, and is resistant to fading or damage due to ultraviolet light, salts and acids caused by automobile emission.

If an alternate stain product is proposed by the Contractor, he shall submit via the Engineer, two 3.8 liter samples of the proposed product to the Materials Bureau for testing. The samples shall be of a color acceptable to the Engineer. Accompanying the samples submitted shall be two sets each of the manufacturer's product literature, manufacturer's application instructions and product safety data sheet. Samples shall be received by the Materials Bureau at least 60 days prior to the intended use of the product.

- B. **Color** The color of the stain used will be approved by the Engineer. The Contractor shall supply to the Engineer, color chips or color samples produced by the stain manufacturer, before any staining work is begun.
- C. **Basis of Acceptance** The stain product used will be accepted based on the manufacturer's certificate or label identifying the product supplied as being standard grade Geotone Stain produced by G.C.S. Inc., and being the color approved by the Engineer.

In the case of an alternate stain product, the product will be accepted based on a written statement from the Materials Bureau describing an alternate stain product which has been tested and approved for use under this specification, plus the manufacturer's certificate or label identifying the product supplied as being the alternate stain product which has been tested and approved by the materials Bureau, and being the color approved by the Engineer.

Construction Details:

- A. **General** the concrete surface to be stained shall be clean, dry, fully cured and free from any material which might inhibit the acceptance of color stain. All repairs to the concrete surface shall be performed prior to the application of the stain.

Architecturally patterned concrete surfaces shall be formed without the use of form release agents. When patterned concrete surfaces are required, the desired surface pattern shall be achieved by means of flexible form inserts or other method approved by the Engineer.

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- B. **Surface Preparation** After the concrete surface has been fully cured, it shall be cleaned of dust and soil by water blasting or other method approved by the Engineer. Prior to cleaning the concrete surface, the Contractor shall remove loose scale or laitance from the concrete surface by wire brushing or other method approved by the Engineer.
- C. **Equipment** The stain shall be applied to the concrete surface using airless spray equipment. Roller or brush application will not be permitted.
- D. **Application** The concrete surface shall be completely dry before application begins. The stain shall be applied in at least two separate coats according to the limitations and provisions of the manufacturer's technical data sheets and product application instructions.

The Contractor shall exercise due care to protect structures and installations adjacent to the work area from overspray.

The Engineer is empowered to terminate spraying if he determines that satisfactory results are not being obtained or when areas not specifically designated to be stained are likely to be, or are being, affected by the application method.

- E. **Clean-Up** All areas adjacent to the work which are affected by overspray or are damaged by the Contractor's operations shall be cleaned or repaired by the contractor in a manner satisfactory to the Engineer.

Method of Measurement: Payment will be made based on the number of square meters of concrete actually stained in accordance with the contract documents and as directed by the Engineer. Measurement will be taken as the horizontal or vertical plane projection of the surface, whichever is applicable. No measurement will be made of actual concrete surfaces.

Basis of Payment: The unit price bid shall include the cost of all labor, materials and equipment necessary to complete the work.