

**ITEM 04608.9301 M - COLORED AND IMPRINTED HORIZONTAL CONCRETE SURFACES**

**DESCRIPTION**

Under this item the Contractor shall construct color-tinted Portland Cement concrete sidewalks, driveways or other near horizontal surfaces on a prepared subbase, and imprinted with a pattern, and of a thickness and at locations shown on the plans or as directed by the Engineer. The pattern and color shall be as indicated in the contract documents.

**MATERIALS**

The following materials shall meet the requirements specified in Section 700 - Materials:

Portland Cement	701-01
Coarse Aggregate	703-02
Concrete Sand	703-07
Premoulded Resilient Joint Filler	705-07
Wire Fabric for Concrete Reinforcement	709-02
Admixtures	711-08
Water	712-01

The material requirements and composition of concrete shall comply with the specifications for Class D concrete in Section 501-2, "Portland Cement Concrete - General" and as specified for Class D concrete in Table 501-3, "Concrete Mixtures".

Portland Cement shall be Type 1, 2 or I / II.

Color conditioner shall be Chromix Concrete Coloring Admixture as Manufactured by the L.M. Scofield Company of 4155 Scofield Road, Douglasville Georgia, 330134 (800-800-9900) or an approved equal, introduced directly into the mixer drum along with the aggregate, cement and water. The color shall be as specified in the Contract Documents.

Bomacron Release Agent and Bomanite Sealer shall be as distributed by Bomanite of New York & Long Island, 322 Bolton Road, East Windsor, New Jersey 08520, (800-972-0668), or approved equal.

LITHOCHROME Colorcalk shall be as manufactured by L.M. Scofield Company (800-800-9900) or approved equal.

**CONSTRUCTION DETAILS**

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The general construction details for manufacturing, transporting and placing concrete shall meet the requirements of Section 501, Portland Cement Concrete - General.

The concrete shall be placed on the prepared subbase in one course to the full depth shown on the plans.

Wire fabric for concrete reinforcement shall be embedded at mid-depth in the slab. The wire fabric shall consist of W2.9 or W3 wire at 150 mm centers transversely and longitudinally.

Transverse expansion joints shall extend to the full depth of the slab and shall be spaced 6 to 8 meters apart.

The concrete shall be placed and screeded to the finished grade and floated to a uniform surface.

Bomacron , Pigmented Release Agent (color as specified in the contract documents) shall be applied evenly to the surface, as required.

While the concrete is still in the plastic stage of set, the Bomanite imprinting tools shall be applied to make the desired impression to the surface. Impressions shall not be deeper than 10 mm.

The surface shall be scored at intervals shown on the plans by means of a tool or may be saw cut. The depth of the score shall be 25 mm. If the saw cut option is used, the saw cutting must be performed later the same day.

Premoulded resilient joint filler shall be installed at all joints and between the sidewalk and curb, to within 25 mm of the top of the slab. The top 25 mm of the joint shall be caulked with LITHOCHROME Colorcalk Sealant in the matching color.

The concrete surface shall be sealed with 2 coats of Bomanite Sealer or an approved equal as soon as the imprinting and tool scoring operations are complete. If the saw cut option is used, the sealer shall be applied as soon as the imprinting is complete.

Quality Assurance - The Contractor shall show evidence of successful completion of similar installations. Prior to the start of work, the Contractor shall provide a job site sample for the approval of the Engineer. The sample shall be: 4 meters x 2 meters, minimum; constructed at a location selected by the Engineer; not be incorporated into the work; and be removed when ordered by the Engineer.

**METHOD OF MEASUREMENT**

This work will be measured as the number of square meters of Colored and Imprinted Horizontal

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Concrete Surfaces installed in accordance with the plans, specifications, and as ordered by the Engineer.

**BASIS OF PAYMENT**

The unit price bid per square meter shall include the cost of furnishing all labor, materials and equipment necessary to complete the work including preparing the subbase, Wire Fabric reinforcement and constructing and removing the job site sample. Necessary excavation and subbase course will be paid for under their appropriate items.

This specification has been  
Disapproved by EI 04-019