

**ITEM 10608.9318 M - COLORED AND IMPRINTED CONCRETE SURFACES, 100 mm THICK**  
**ITEM 10608.9320 M - COLORED AND IMPRINTED CONCRETE SURFACES, 150 mm THICK**  
**ITEM 10608.9322 M - COLORED AND IMPRINTED CONCRETE SURFACES, VARIABLE THICKNESS**

**DESCRIPTION.**

Under these items the Contractor shall construct Portland Cement concrete surfaces on a prepared subbase, having the surface colored and imprinted with a pattern, and of the thickness and at locations shown on the plans or as directed by the Engineer. The pattern and color shall be as indicated on the plans.

**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
Caulking Compound for Structures	705-06
Premoulded Resilient Joint Filler	705-07
Wire Fabric for Concrete Reinforcement	709-02
Admixtures	711-08
Water	712-01
Coating Type Protective Sealer	717-04

Concrete shall meet the requirements of Subsection 501, except that it shall have a minimum 28 day compressive strength of 28,000 kPa, an Air Content of 6.5%. Air entraining and/or Set Retarding, Water Reducing (ASTM TYPE D) admixtures shall be permitted providing the brand name appears on the Department's Approved List. No other admixture will be permitted. The Contractor shall be responsible for designing the concrete mix and submitting it for approval by the Regional Materials Engineer.

Portland Cement shall be Type 1, 2 or 5.

Color Hardener shall be a "dry-shake."

Caulk color shall match the concrete or as, otherwise, specified in the plans.

Release Agent shall be clear or as, otherwise, specified in the plans to achieve an antiquing affect.

Concrete sealer shall have a matte finish.

**CONSTRUCTION DETAILS.**

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

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of MW19 or MW20 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.

Color Hardener shall be applied evenly to the plastic surface by the dry-shake method at a rate of 3 kilograms per square meter, minimum. It shall be applied in two or more shakes, floated after each and troweled only after the final floating.

Release Agent shall be applied evenly to the surface, as required.

While the concrete is still in the plastic stage of set, the 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 colored calk.

The surface shall be sealed with 2 coats of sealer and curing procedures shall meet the requirements of 502-3.01 - Curing.

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. All work shall conform to the appearance of the approved sample to the satisfaction of the Engineer. The sample shall 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 concrete surfaces of each thickness, installed in accordance with the plans and specifications and to the satisfaction of 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; wire fabric reinforcement and constructing and removing the job site sample. Necessary excavation and subbase course will be paid for under their appropriate items.