

ITEM 10608.9503 M - INTEGRALLY COLORED HOT APPLIED SYNTHETIC ASPHALT WEARING SURFACE

DESCRIPTION.

This work shall consist of furnishing and installing integrally colored hot applied synthetic wearing surface with stamped pattern as indicated on the plans, and at locations shown on the plans.

MATERIALS.

Use Grade 60 Imprint[®], a hot applied polymer modified synthetic asphalt compound wearing course produced by Prismo Limited, or an approved equal as determined by the Regional Materials Engineer (RME) . The Imprint material incorporates pigment, graded rubber granules, granite aggregates and reinforcing fibers. The integral color and stamped pattern shall be as indicated on the plans using material available from Imprint[®] or an RME approved equal.

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Aggregates.

Coarse Aggregates. The wearing course aggregates shall be crushed granite aggregate meeting the manufacturer's recommended gradations and meeting the requirements of Section 703-Aggregates. Aggregate samples shall be submitted to the Regional Materials Engineer for approval 45 days prior to use. Additional quality assurance samples will be retrieved during installation and submitted for testing at a minimum rate of 1 sample per 100 m², or as ordered by the Engineer. The coarse aggregates gradation shall be such that 100% passes the 12.5 mm sieve.

Fine Aggregates. 703-01 shall apply except as modified herein. Use silica sand as a topping material at an application rate of approximately 50 kg per 50 square meters of surface area. When dry, the silica sand shall meet the following gradation requirements:

ITEM 10608.9503 M - INTEGRALLY COLORED HOT APPLIED SYNTHETIC ASPHALT WEARING SURFACE

Sieve Size	Percent Passing
850 µm	100
600 µm	40-100
300 µm	1-3
150 µm	0 - 0.3

CONSTRUCTION DETAILS.

Place surface treatment in accordance with the manufacturer’s recommended methods at the thicknesses and details as shown in the contract documents. Interfaces with adjacent surfaces shall be flush, providing smooth transition from surface to surface. All surfaces must be dried and cleaned by use of mechanical sweepers, high pressure air or other methods approved by the Engineer prior to use. Surfaces must be free of all dirt, oil, debris and any other material that might interfere with the bond between the resurfacing material and existing surfaces.

Use a hot compressed air lance (HCA) immediately prior to application to remove any remaining dust and promote good adhesion to the substrate. Use masking tape or other suitable material to protect the area adjacent to the installation. Install grade control devices to ensure the required thickness of Imprint is installed. The method and material used for grade control must be pre-approved by the Engineer in Charge.

Heat the materials in accordance with manufacturer’s recommendations using a thermostatically controlled preheater capable of continuous material agitation. Only use heating equipment that has been approved by the Engineer.

Temperature Requirements

- Imprint materials shall be preheated between 190°C-215°C.
- Silica sand must be completely dried before application to ensure proper adhesion to the Imprint material. A hot compressed air lance may be used to thoroughly dry and preheat the silica sand.
- Material shall not be placed when the ambient air temperature is below 4°C.
- Material shall not be placed if the Engineer determines atmospheric conditions may compromise the surface treatment performance.

Apply, uniformly spread and smooth out the material between the grade control forms utilizing hot irons as recommended by the manufacturer. Apply preheated sand after the material has been smoothed out and before printing. If required, a roughened surface texture can be achieved by using wooden floats versus a hot iron finish

ITEM 10608.9503 M - INTEGRALLY COLORED HOT APPLIED SYNTHETIC ASPHALT WEARING SURFACE

Imprinted Design Imprint the semi molten material immediately after the sand application using an approved mold capable of providing a 8 mm ± 2 mm deep imprint in accordance with the design details shown on the plans. Use a manufacturer approved release agent to prevent Imprint material from sticking to the mold.

METHOD OF MEASUREMENT.

The unit price bid per square meter shall include the cost of all labor, materials and equipment necessary to complete the work, including any milling and sawcutting necessary to install the synthetic asphalt wearing surface as shown on the plans.

BASIS OF PAYMENT.

The unit price bid per square meter shall include the cost of all labor, materials and equipment necessary to complete the work, including additional milling and sawcut not specified in the contract plans.

DisApproved per
EI 04-019