

**ITEM 03608.9402 M - STREETPRINT PAVEMENT TEXTURING SYSTEM  
(VEHICULAR AREA)**

**DESCRIPTION:**

This work shall consist of furnishing and installing StreetPrint Pavement Texturing on Hot Mix Asphalt Concrete (HMA) or equal as approved by the Regional Landscape Architect and treating the patterned surface to create the appearance of hand laid decorative paving product by a authorized StreetPrint Applicator.

**MATERIALS:**

A. Surface System

The surfacing system shall consist of two (2) coats of an integrally colored, cement modified acrylic polymer with a sealer coat. The product used in the surfacing system shall meet the minimum physical and performance properties as described under Physical Properties.

Physical Properties Traffic Formula		
Characteristics	Test Specification	StreetBond Traffic Formula
Solids by Volume (%)	ASTM D-5201	53 ± 3%
Solids by Weight (%)	ASTM D-1351	75.5 ± 2%
Density	ASTM D-1475	1.75 g / ml
Flash Point	ASTM D-3278	93° C
Percent Pigment (by weight including cement)	ASTM D-3723	62 ± 2%
Sheen (85°)	ASTM D-523	<3 @ 85%
Physical Properties Sealer Concentrate		
Characteristics	Test Specification	StreetBond Sealer Concentrate
Solids by Volume (%)	ASTM D-5201	24 ± 2%
Solids by Weight (%)	ASTM D-1353	27 ± 2%
Density	ASTM D-1475	1.03 g / ml
Spec. Gravity	ASTM D-1475	1.03
Sheen (85°)	ASTM D-523	> 75 @ 85°
VOC Coating	ASTM D-3960	93° C
Flash Point	ASTM D-3278	93° C

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Performance Properties Traffic Formula		
Characteristics	Test Specification	Minimum Criteria StreetBond Traffic Formula
Tensile Strength (kPa)	ASTM D-412	45.7 kg / cm <sup>2</sup>
Flexibility, Mandrel (High)	ASTM D-1737	Pass 25.4 mm @ 21° C
Flexibility, Mandrel (Low)	ASTM D-1737	Pass 50.8 mm @ -18° C
Dry Time (to re-coat)	ASTM D-711	20 minutes to 4 hours
Dry Time (for traffic) 24° C / 30% RH	N/A	~ 80% strength @ 6 - 8 hours
Taber Abrasion (H-10)	ASTM D-4060	< .18 g / 1000 cycles
Adhesion (PLI) to an asphalt substrate	ASTM D-4640	Cohesive failure of asphalt prior to adhesive failure
QUV E	ASTM G-53	300 hours - 2.35 CIE units
Hydrophobicity (3 days)	ASTM D-570	< 12% weight gain
Shore Hardness	ASTM D-2240	80 D
Temperature Limits for Service	Dry, cured material	-34° C to 71° C
Surface Build	N/A	.50 - .64mm (2 coats)

**B. Maintenance Kit**

The maintenance kit shall include:

- 1 - 1.5 m x 2.75 m form - refer to plans for form style
- 1 - .6 m x 1.2 m form - refer to plans for form style
- 1 - finishing tool
- 2 - boxes traffic formula coating (coverage approximately 28 m<sup>2</sup>/box)
- 2 - boxes sealer concentrate (coverage approximately 185 m<sup>2</sup>/box)

The contractor shall supply one maintenance kit to the Engineer.

**CONSTRUCTION DETAILS:**

Only the authorized StreetPrint applicator can install the textured pattern & surface treatment. The contractor shall submit verification of authorization for the StreetPrint applicator to the Engineer 21 days before fabrication commences. The contractor shall install the Hot Mix Asphalt. The StreetPrint applicator shall coordinate the installation of the texturing and surface treatment with the contractor.

The texture and surface treatment shall be installed in the position and manner indicated on the plans and as reviewed by the Regional Landscape Architect and approved by the Engineer.

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Surface Imprinting - The contractor shall follow procedures detailed in the latest revision of StreetPrint Application Procedures as issued by Integrated Paving Concepts Inc. The pattern shall be created in accordance with the design as shown on plans and reviewed by the Regional Landscape Architect. Patterning shall begin once the asphalt has reached its final density and while there is still sufficient heat in the asphalt to permit imprinting. Patterning shall be achieved using steel rollers and/or vibratory plates and shall be of consistent depth.

Surfacing System - The contractor shall apply two (2) coats of the StreetBond Standard Formula specified in Materials section of this specification. Installation shall be in accordance with the latest revision of the StreetPrint Application Procedures as issued by Integrated Paving Concepts Inc. StreetPrint Surfacing System shall not be applied when the temperatures are below 7.2° C or when precipitation is expected within 24 hours. The StreetBond system shall be spray applied and broomed using a broom or brushes to cut-in areas where required. Care shall be taken to ensure that the entire surface is covered, including the imprinted surfaces. Sufficient masking (payment covered under this item) shall be used to ensure that the surfacing products are applied only where specified. Coverage rates shall be monitored to ensure adequate build is achieved. StreetBond shall be applied at a minimum coverage rate of 1.85 square meters per liter per coat. Once the StreetBond Standard Formula is dried in accordance with performance properties, one coat of a curing membrane of StreetBond Sealer Concentrate shall be applied at the coverage rate of 7.5 square meters per liter. Coverage rates shall be monitored to ensure adequate build is achieved.

**METHOD OF MEASUREMENT:**

The installation of the StreetPrint Pavement Texturing System will be measured by the number of square meters of hot mix asphalt satisfactorily imprinted in accordance with this specification and as approved by the Engineer.

**BASIS OF PAYMENT:**

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