THE CORPORATION OF THE CITY OF BURLINGTON

INDEX FOR

PAVEMENT TEXTURING STANDARDS (SPEC. NO. SS10)

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PAVEMENT TEXTURING STANDARDS (SPEC. NO. SS10)

PART A - GENERAL

1. Quality Assurance

The contractor must have a minimum of 5 years experience in asphalt paving work.

2. Product Delivery, Storage & Handling

Store granular materials in areas designated by the Consultant / City.

3. Job Conditions

a) Proceed with paving operations only during favorable weather conditions and on a dry base.

b) Protect all adjacent areas and structures, particularly planted areas, from contamination by asphalt materials. Make good all damage.

4. Inspection

a) Stake out paving locations and obtain approval from the Consultant /City before proceeding.

b) Obtain approval from the Consultant / City of the finished sub-grade before proceeding.

c) Obtain approval from the Consultant / City of the paving base before proceeding.

PART B - PRODUCTS

1. StreetPrint Base Coat

StreetPrint base coat is an epoxy fortified acrylic emulsion designed as a primer coating for application on asphalt. It has a superior adherence characteristics and is colour designed for coverage by StreetPrint Colour Coat.

2. StreetPrint Colour Coat

StreetPrint Colour Coating is a water-based acrylic finish fortified with epoxy to increase abrasion resistance. The product is designed for use over concrete or asphalt and resists abrasion, weathering and moisture degradation. StreetPrint Colour Coatings may be used on walkways, driveways, and recreational surfaces such as tennis courts.

3. Physical Properties

Physical properties as follows:

		BASE COAT	COLOUR COAT
a)	Solids by Weight	50+/-2%	50+/-2%
b)	Solids by Volume	40+/-2%	40+/-2%
c)	Density	10.6+/-0.3 1.28gr/l	10.2+/-0.5 1.23gr/l
d)	Flash Point (ASTM D1640)	>200'F(93C)	>200'F(93C)
e)	Dry Time (to touch)	15-45 minutes	15-45 minutes
f)	Dry Time (to recoat)	1-48 hours	1-48 hours
g)	Dry Time (for traffic)	2-4 DAYS	2-4 DAYS
h)	Gloss (ASTM D523 60 deg.)	3.0-5.0	2.0-4.0
i)	Hardness	50 Shore A Elasto.	3H Pencil Firm
j)	Temp. Limits for Service	-30'F to 150'F	-40'F to 150'F

4. Asphaltic Concrete Pavement - General

a) This specification contains minimum requirements for design and construction of a hot mix asphalt concrete (HMAC) pavement structures upon which a patented imprinting, colour coating and sealing process (hereinafter called "StreetPrint) will be applied.

b) Design is defined as the structural design of the total structure, having regard for the subgrade support characteristic and the type and volume of vehicular traffic to which the constructed pavement will be subjected.

c) Construction is defined as inclusive of preparation of existing subgrade and supplying, processing, hauling, placing and compacting all components of the pavement structure to lines, grades and cross-sections as specified or directed by the owner of his authorized representative.

d) "StreetPrint" is a patented process of Integrated Paving Concepts Inc., 141 Talbot Dr., Oakville Ontario L6L 4C4, Telephone (905) 827-3920, attention Craig Parsons.

5. Asphaltic Concrete Pavement - Products

a) Sub-Base: If a sub-base is specified, it shall be 50mm crusher run limestone meeting OPSS Type II granular ‘B’ as amended in section C-2. It shall be placed to the thickness indicated and compacted to 100% standard proctor density.

b) Granular Base: The granular base shall meet OPSS 19mm granular ‘A’ material as amended in section C-2. If it is full depth with no granular sub-base it shall be granular ‘A’ crushed limestone. If a granular sub-base of 50mm crusher run material is used, either granular ‘A’ crushed limestone or granular ‘A’ pit run material with 80% crushed percentage on two faces is permitted on top of the 50mm crushed limestone.

c) Base Asphalt: The base asphalt shall be HL8 meeting the requirements of OPSS as amended in section C-2. The thickness shall be as indicated on the drawings.

d) Surface Asphalt: The surface course asphalt shall be HL3, HL3A or HL4 meeting the requirements of OPSS as amended by section C-2. The thickness shall be as indicated on the drawings.

PART C - EXECUTION

1. Subgrade Preparation

a) Complete in accordance with guidelines and standards as specified.

b) The minimum level of compaction of the surface of subgrade soil is to be 100 percent of maximum Standard Proctor dry density.

2. Granular Sub-Base and Base Construction

These granular materials shall be placed in accordance with OPSS. Compact to density not less than 100 percent of maximum dry density in accordance with OPSS.

3. Asphalt Concrete Paving

Base asphalt and surface asphalt shall be placed in accordance with OPSS.

4. Installation Procedures

a) General - Streetprint Pavement Texturing shall only be installed by authorized and experienced (minimum 2 years) StreetPrint applicators.

b) Surface Texturing or Patterning: Once the asphalt has reached the required density and while it is still hot, a series of patented templates are positioned on the surface with the desired orientation. The templates are then set in place using a plate compactor and fully imbedded using the same compaction equipment used in placing the asphalt. It is important that the asphalt be fully compacted prior to patterning.

c) Overlay Installation: StreetPrint may be installed over existing asphalt or concrete provided steps are taken to ensure that the existing pavement is stable. This generally requires the installation of lift of a minimum compacted depth of 35mm of HMA. Patterning is done in the same manner as or new installations.

d) Coating - The applicator shall apply two coats of StreePrint Base Coat plus a minimum of one coat of Street Print Colour Coat in the colour specified by the owner or owner's representative.

e) Coating Application: The patterned asphalt is ready to receive the StreetPrint coating products ten days to two weeks after it has been placed. Prior to coating the asphalt should be cleaned as needed. The asphalt must be dry prior to coating except where extreme heat requires dampening Base Coat and StreetPrint Colour Coat have both been specially formulated to provide superior performance with a very thin coating layer. The target application rate is 200 square feet per gallon of Base Coat and 200 square feet per gallon of Colour Coat. Coatings should be horoughly mixed prior to application using a commercial shaker or mixing attachment on a power drill. Both products are applied using an airless sprayer followed by backrolling with a short nap paint roller to ensure that all of the textured surface is covered with a minimal coating buildup. The Colour Coat layer should be applied perpedicular to the Base Coat layers.

5. Clean-Up

At the completion of asphalt operations and prior to final inspection, clean all curbs, catch basins, manhole covers, walls and other structures to remove contamination by asphaltic or other materials resulting from the work.