



StreetPrint[®] Genuine Stamped Asphalt

Specification

Updated: January 2017



PART 1 – GENERAL

1.1 DESCRIPTION

A. **StreetPrint® Genuine Stamped Asphalt** is a suitable solution for a wide variety of decorative asphalt pavement applications. Paved entranceways, parking lots, residential driveways, sidewalks, plazas, traffic calming device treatment and are some examples of successful applications of StreetPrint.

B. StreetPrint Genuine Stamped Asphalt is executed by elevating the temperature of an asphalt pavement surface utilizing specialized StreetHeat® asphalt re-heaters and then pressing a **StreetPrint® wire rope stamping template** into the surface to replicate, in relief, the grout depressions common to hand-laid brick, cobblestone, or any other design as shown on the drawings or described in the specifications. The imprinted asphalt pavement surface is then coated with a **StreetBond® – Advanced Coatings for Asphalt**.

C. StreetPrint Genuine Stamped Asphalt is a specialized process that requires the skill of a Qualified Applicator working with the proper **StreetHeat®** reciprocating asphalt heating equipment and applying **StreetBond®**, specialized coatings designed specifically for application to asphalt pavement.

D. This specification will include guidance with respect to the minimum requirements/qualifications of the applicator, equipment and coating in the execution of this Work.

1.2 DEFINITIONS

- A. **“Qualified Applicator”** is a contractor or ‘Applicator’ who has completed the StreetPrint® training and can provide certification upon request.
- B. **“Owner”** means the Owner and refers to the representative person who has decision making authority for the Work.
- C. **StreetPrint®** is asphalt that has been subjected to post pavement installation reheating using **StreetHeat®** reciprocating asphalt heating equipment, imprinting or stamping in a specific pattern using StreetPrint® wire rope stamping templates and surface application of **StreetBond150®**, specialized coatings designed for application to asphalt pavement.
- D. The **“Work”** is the StreetPrint® asphalt pavement texturing work contemplated in this bid submission and specification.

1.4 SUBMITTALS

The documents required as part of this bid submission are as follows:

A. Proof of Qualified Applicator's ability by way of a letter confirming certification from [HUB Surface Systems](#).

PART 2 – EQUIPMENT & PRODUCTS

2.1 EQUIPMENT

The following specialized equipment and products shall be used in the execution of the Work.

A. StreetPrint® wire rope stamping templates are used to create the desired imprint pattern.

B. StreetHeat® asphalt reheat equipment specifically designed for StreetPrint Genuine Stamped Asphalt and is to be used in the execution of this work when being applied to existing asphalt. This primary asphalt re-heat equipment must cycle the heat application and must allow the equipment operator to check the pavement surface temperature during the heating process. These controls are necessary to enable the pavement temperature to be elevated gradually, giving the operator the ability to ensure that the pavement is not overheated or adversely affected. Heaters without these controls are strictly prohibited as the primary re-heat equipment.

C. Hand-held portable heating devices may be used only for areas where it is difficult to operate the StreetHeat® asphalt heating equipment. These may not be used as the primary pavement re-heating device.

D. Finishing tools that are designed to enable the applicator to complete the imprinting of the asphalt pavement in areas which may be inaccessible to the StreetPrint wire rope stamping template such as curbs and manhole covers are permitted.

E. Vibratory Plate Compactors shall be used for pressing the StreetPrint wire rope stamping templates into the heated asphalt pavement to create the specified pattern.

2.2 MATERIALS – COATINGS

StreetBond150® coatings shall be used for colour surface treatment refer to:
<http://hubss.com/wp-content/uploads/2015/06/StreetBond-Specification-Imprinted-Asphalt.pdf>

For Streetbond150® colour selection including Solar Reflective LEED® (SSC7.1) compliant colours refer to:
http://hubss.com/wp-content/uploads/2017/02/StreetBond-Color-Card_10-16_for-Web.pdf

PART 3 - EXECUTION

3.1 GENERAL

The StreetPrint Genuine Stamped Asphalt shall be supplied and installed by a Qualified Applicator in accordance with the plans and specifications or as directed by the Owner. Do not begin the Work until confirmation of the Applicator's qualifications is provided.

3.2 PRE-CONDITIONS – ASPHALT PAVEMENT

A highly stable asphalt pavement free of defects is a pre-requisite for the installation of StreetPrint®. Do not install StreetPrint® on poor quality or structurally compromised asphalt pavement.

3.2.1 Pre-requisites for new asphalt pavement

A durable and stable asphalt pavement mix design installed according to best practices over a properly prepared and stable substrate is a pre-requisite for all long- lasting asphalt pavement surfaces. The application of StreetPrint Genuine Stamped Asphalt does not change this requirement.

Generally, the asphalt pavement mix design for roadways as prescribed by the local jurisdiction will be sufficient for the application of a pavement texturing system.

3.2.2 Pre-requisites for existing asphalt pavement

Depending upon the condition and age, existing asphalt pavement may or may not be suitable for the successful application of StreetPrint®. Minimally, the asphalt pavement must be in good condition and not have any defects including cracks, ruts or potholes nor demonstrate any flushing, raveling or other structural like deficiencies.

3.2.3 Pavement Marking Removal: recommended guidelines

Pavement markings may be removed by sandblasting, water-blasting, grinding, or other approved mechanical methods. The removal methods should, to the fullest extent possible, cause no significant damage to the pavement surface. The Owner shall determine if the removal of the markings is satisfactory for the application of StreetPrint®. Work shall not proceed until this approval is granted.

3.2.4 Surface Preparation

The asphalt pavement surface shall be dry and free from all foreign matter, including but not limited to dirt, dust, de-icing materials, and chemical residue.

3.3 LAYOUT

Layout of the pattern for imprinting into the surface of the asphalt pavement shall be as per the Owner's drawings and specifications.

3.4 HEATING THE ASPHALT PAVEMENT

The Applicator shall use StreetHeat® asphalt heating equipment as described in Section 2.1.

A. The optimal pavement temperature for imprinting the StreetPrint wire rope stamping template is dependent upon mix design, modifiers used in the mix, the age of the pavement and weather. The surface temperature of the pavement should not exceed 325°F as determined by an infrared thermometer reading taken after the heat is applied to the asphalt pavement.

B. In order to achieve the proper depth of imprint it is important to elevate the asphalt pavement temperature to a minimum depth of 1/2 inch (12.5mm) without burning the pavement surface. This can only be accomplished using asphalt reheat equipment that is specifically designed for this Work.

3.5 SURFACE IMPRINTING

A. Once the asphalt pavement has reached imprinting temperature, the StreetPrint® wire rope stamping templates shall be placed in position and pressed into the surface using vibratory plate compactors. The top of the template is to be flush with the surrounding asphalt pavement and can then be removed. Areas that have an imprint depth less than 3/8 inch shall be re-heated and re-stamped prior to applying StreetBond150® coatings. Hand tooling is a permitted method to achieve proper imprint depth in areas difficult to get at with the template.

3.6 APPLICATION OF ASPHALT PAVEMENT COATING GUIDELINES

The qualified applicator shall refer to Section 2.2 for the recommended methods of SreetBond150® coatings application.

3.7 OPENING TO TRAFFIC

The qualified applicator shall refer to Section 2.2 for the recommended methods of SreetBond150® coatings application.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

The measured area is the actual area that has received the asphalt pavement texturing. No deduction will be made for the area(s) occupied by manholes, inlets, drainage structures, bollards or by any public utility appurtenances within the area.

4.2 PAYMENT

Payment will be full compensation for all work completed as per conditions set out in the contract. For unit price contracts, the payment shall be calculated using the measured area as determined above.

