

TRAFFICPRINT

Hot Applied Synthetic Asphalt Compound
Material Specification



DESCRIPTION:

This work consists of construction of a hot applied polymer resin based compound known as 'TrafficPrint' in crosswalks and surface areas. The material shall consist of applying a pattern that is imprinted with a mold to create the appearance of hand laid decorative paving. The treatment shall be applied according to the Manufacturer's Specifications.

MATERIALS:

The material is to be installed at an average of $\frac{3}{4}$ inch thick with normal thickness from $\frac{1}{2}$ inch to 1 inch depth, it shall be a full-thickness colored, hot-applied developed specifically for use on Hot Mix Asphalt or Concrete (**TrafficPrint as supplied by Traffic Calming USA, 110 Thompson Road, Suite 102, Hiram, Georgia, 30141. 770-505-4044**). The material shall consist of a mixture of Materials that shall consist of approximately 12 % Binder resin, 5 % polymer, 5% plasticizer, 35% recycled glass/sand, 40% aggregate, 2 % fibers 1% modifier that produces a product with superior adhesion, flexibility and abrasion resistance characteristics as well as color stability, chemical resistance and scrub ability.

System shall have 5 year warranty from date of installation (subject to terms) against defective workmanship and materials". See warranty document.

CONSTRUCTION DETAILS

TrafficPrint must be installed onto asphalt that has a minimum top layer/friction course thickness below the TrafficPrint of 3/4 inch deep.

The material is NOT to be installed at depths greater than 1.0 inch deep except for keyway locations which are limited to a taper of 2.5 inches deep and 4 inches wide. Areas greater than 1 inch shall be charged extra per unit of measurement and will be subjected to exclusion from warranty.

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Caution must be given to surfaces whereby asphalt is overlaid above concrete slabs and a **minimum of 1.5 inches deep of asphalt is required to prevent reflective cracking in the TrafficPrint.** Concrete should be allowed to cure properly before the installation of TrafficPrint and it is necessary to place joints in the TrafficPrint surface above any concrete joints beneath. It may be necessary to roughen the concrete surface and occasionally use a primer. This is at the discretion of TMUSA.

If TrafficPrint is to be installed flush or level with the pavement surface it is necessary to mill ½ to one inch deep from the existing surface and fill the milled out area with TrafficPrint material. The milling process consists of removing the existing asphalt or concrete with a skid steer machine and cold planer. Once milled the edges of the crosswalk are saw cut to form a neat and straight edge.

The area of the crosswalk is cleaned and all debris removed. The hot applied resin can be opened to traffic after placement when cool and hard; typically 45 minutes to One hour from installation.

The hot applied mixed resin should not be installed when precipitation is expected or surface temperatures are below 35 degrees Fahrenheit.

After the 'TrafficPrint' material has cooled, an 8 inch to 12 inch wide thermoplastic or epoxy stripe shall be installed on both sides of the crosswalk. (Supplied by others)

The existing pavement condition shall be assessed by an authorized manufacturer's representative prior to installation to determine any remedial action required.

SURFACE PREPARATION

The pavement surfaces shall be dry and free of sand, dirt, grease, oil and any other contaminants that may interfere with the bond between the treatment material and any other surfaces. New asphalt or concrete should be left to cure for a minimum of 14 days after installation before TrafficPrint installation work can commence unless advised differently by a Traffic Management Representative. If moisture is present on the surface then use propane torch, or equivalent to remove moisture until dry and clean. The installation area boundaries shall be saw-cut prior to excavating the existing material

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The TrafficPrint shall be prepared for installation utilizing a heating kettle specifically designed for Hot Applied mixed resin treatment to 385 degrees f to 420 degrees f.

The TrafficPrint material shall be uniformly distributed onto the pavement surface by means of finishing irons pre-heated to >800 degrees f that are used to smooth and level the materials to an average depth of $\frac{3}{4}$ inch to deep. No additional compaction is required.

Immediately apply dry sand over the hot applied resin to cover surface at an approximate rate of 1.75 lb./sq. yd.

Place the mold into the semi molten material immediately after the sand application using an approved mold capable of providing an impression in accordance to the design details shown on the plans.

Allow the treatment to cure for approx. 1 hour until the material is hard then any excess sand can be removed prior to opening to traffic.

MEASUREMENT AND PAYMENT

The stamped synthetic pavement surface will be measured by the square yard or square foot of the installed material.