



SURFACE-APPLIED MARKINGS

A PROVEN TRACK RECORD OF DURABILITY & PERFORMANCE



MORE INFO VISIT: www.lafrentz.ca
CALL TOLL FREE: 1 (800) 859 2947

BENEFITS OF LAFRENTZ SURFACE-APPLIED MARKINGS:

- + More durable than paint road markings
- + Lower initial cost, and faster to apply than inlaid road markings
- + Very versatile: can be applied in most shapes that can be stencilled
- + Great for transverse and longitudinal markings
- + High retro-reflectivity
- + System 400 Cold Plastic can be applied in temperatures as low as 0°C
- + Lafrentz thermoplastics and cold plastics are ISO:9001 certified



“If you’re painting two times per year or more, surface-applied plastic markings are a more cost-effective choice.”

Surface-applied plastic provides medium durability and is excellent for use on medium ADT roadways, edge lines and highway message markings.

If you’re painting two times per year or more, surface-applied plastic markings are a more cost-effective choice, providing better durability and longevity. Most cost-effective in small- to medium-sized urban centres, these markings have a proven track record of durability and performance.

Surface-applied markings can be applied using one of two plastic materials, both of which are manufactured by Lafrentz Road Marking for Canada’s harsh climates:

SYSTEM 400 COLD PLASTIC

An eco-friendly product, cold plastic can be applied at lower temperatures than thermoplastic (as low as 0°C), and it uses a chemical catalyst, not a heat process, to create a bond to the aggregate in the road surface. System 400 is very flexible, economical, and can be applied to new and aged asphalt as well as concrete. It is made of methyl methacrylate (MMA), a hard resin compound that is completely U.V. stable and has no VOC emissions. System 400 can also be overlaid on a previous System 400 application to provide monolithic repairs.

SYSTEM 300 THERMOPLASTIC

Thermoplastic uses a heat process to create a hydrocarbon bond to the road surface. Lafrentz heats solid plastic blocks to high temperatures, and applies the liquid plastic to either longitudinal or transverse markings. Lafrentz has years of experience working with thermoplastic, and has been applying it to roadways since 1974.



LAFRENTZ ROAD MARKING

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Cold Plastic applied using a walk-behind applicator



Transverse marking application



Message markings are applied using a draw box

THE APPLICATION PROCESS

Lafrentz applies surface markings across Western Canada using both System 300 Thermoplastic and System 400 Cold Plastic. The application processes, outlined below, vary depending on the product used.

LONGITUDINAL LINE APPLICATION

For longitudinal lines, the plastic is prepared on-site and transferred to a small pot on a production applicator. Thermoplastic is applied using a machine, while cold plastic is applied using a walk-behind applicator. In either case, the plastic moves from the pot to a shoe, and is extruded onto the asphalt. Glass beads are applied on the soft plastic for additional retro-reflectivity.

TRANSVERSE MARKING APPLICATION

For crosswalks, stop bars and other transverse markings the design is first pre-marked. The liquid thermoplastic or cold plastic is poured into a metal hand form and pulled across the area – extruding plastic onto the surface of the roadway. The guide rail maintains straight lines and ensures the result is sharp and crisp. Additional glass beads are hand-applied on top of the liquid plastic.

System 400 Cold Plastic can be applied to the surface of concrete. These applications are more complex and require a multi-step process to ensure proper bonding to the road surface.

MESSAGE MARKING APPLICATION

To apply complex symbols such as arrows and messages, the design is first pre-marked using a stencil. The next step is to pour liquid plastic, using a drawbar to produce a thick extrusion and a guide rail to ensure straight edges. The marking is trimmed if necessary to create crisp lines, and glass beads are applied for additional retro-reflectivity.



Glass Bead Application



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