DURABLE ROAD MARKINGS

THERMOPLASTIC // COLD PLASTIC

Durable road markings perform the same function as paint markings, only they're designed to be longer-lasting.

Ideal for high-wear, heavy-traffic areas, durable road markings bond to both asphalt and concrete surfaces. Durable road markings can be laid using thermoplastic (heat process to create a bond) or cold plastic (chemical reaction to create a bond), and can be applied to the surface of the roadway, inlaid, and even profiled for higher visibility. Each of these options provides continuous delineation through the years, enhancing roadway safety.

LAFRENTZ LONGER-LASTING DURABLE ROAD MARKINGS

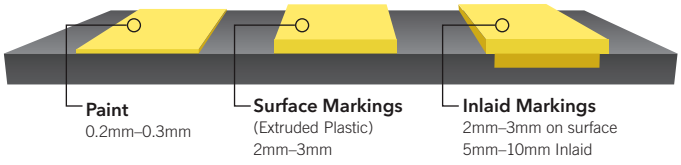
SURFACE-APPLIED MARKINGS

Surface-applied plastic provides medium durability, and is excellent for use on medium ADT roadways, edge lines and highway message markings. While the application process is very precise and requires extreme attention to detail, the cost is less than inlaid applications. The results are a smooth, durable and long-lasting marking.

INLAID ROAD MARKINGS

When maximum durability is the goal, inlaid road marking is the right choice. For longitudinal lines or transverse markings, Lafrentz applies the plastic to a roadway surface that has been ground out and cleaned. In a single pass the material fills the grind, seals the edges and is struck off above the level of the asphalt creating the final surface and a strong bond. Often times this is a one-time application for the life of the surface, meaning less maintenance expense down the road. Inlaid road markings are a good choice for high-wear and high-ADT areas.

Road Markings Comparison



VISIT: **www.lafrentz.ca** TOLL FREE: **(800) 859 2947**

PROFILED MARKINGS

This type of marking is used on sections of road where high visibility and safety are a primary concern. Profiled markings can be surface-applied or inlaid – either option provides very high retro-reflectivity, better water shedding capabilities, better skid resistance and even a rumble or noise effect when driven over. Profiled markings are designed to be used as centre lines, lane lines and edge lines.

ROADWAY MARKINGS SELECTION GRID FOR URBAN SECTIONS

Type	Thickness	Expected Service Interval*	Initial Cost ($-$$$$$)	Application
Paint Markings	0.2mm–0.3mm	1–3 times / year	$	Local Roads, Highways, Parking Lots
Surface Road Markings (Extruded Plastic)	2mm–3mm	3–5 years	$$$	Medium ADT, Arterials, Collectors, High-Speed, Highway Message Markings
Inlaid Road Markings	5mm–10mm Inlaid +2mm–3mm on surface	7–10 years	$$$$$	High ADT, High-Wear, Arterials, High-Speed
Profiled Road Markings	5mm Inlaid and/or 2mm–3mm on surface	7–10 years	$$$$$	Highways for increased visibility

** variance is based on wear and intended application (ie: longitudinal vs. transverse & arterials vs. collectors vs. high-speed, etc).*

LAFRENTZ ROAD MARKING
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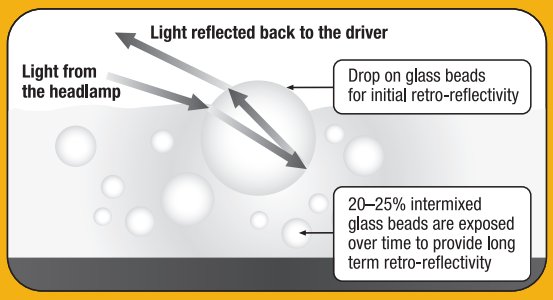
LAFRENTZ USES DIFFERENT PRODUCTS TO APPLY DURABLE ROAD MARKINGS, DEPENDING ON SEVERAL FACTORS:

- Project budget
- Life expectancy of the road surface
- Traffic volumes
- Safety requirements
- Substrate
- Climactic conditions
- Snow and ice control methods
- Maintenance processes

"Retro-reflectivity, created by the addition of small glass beads to thermoplastic and cold plastic, significantly enhances line visibility and is standard application in all of Lafrentz's durable road marking projects."



We use the following products to make durable road marking projects successful for our customers. All of our products are heavily researched and proprietary.

SYSTEM 300 THERMOPLASTIC

Lafrentz has been applying thermoplastic road markings since 1974. The System 300 Thermoplastic roadmarking is created by heating solid plastic blocks to high temperatures, and applying the liquid plastic to either longitudinal or transverse markings. It is extremely durable and can be used in high-traffic areas.

SYSTEM 400 COLD PLASTIC

Lafrentz System 400 is a flexible acrylic-based pavement marking material designed for use in all traffic areas. It is extremely durable and bonds to both asphalt and concrete surfaces. Comprised of 100% solids, the chemical reaction is initialed by adding a catalyst shortly before applying it to the roadway. System 400 can easily be used for transverse, longitudinal markings and almost any message or symbol you can stencil. It is completely U.V. stable, and has no VOC emissions. It can be applied at temperatures as low as 0˚C

PATHFINDER PROFILED MARKING

When water sits on standard road markings they become less visible, and less effective. Pathfinder road markings are based on a methacrylate resin technology, and have a "spatter" (random agglomerate) pattern that allows water to drain away without affecting the visibility of the line – especially at night. Pathfinder is extremely durable, highly retro-reflective, and can withstand snowplowing without affecting its integrity.

SNO-PRO PROFILED MARKING

SNO-PRO markings have also been developed to solve the problem of visibility in wet conditions. Lafrentz applies a base of System 300 Thermoplastic, and then imprints one of several available patterns on the plastic while it's still pliable – creating a "stamp" that allows water to drain from the line (improving visibility and retro-reflectivity) while providing the added benefit of a rumble noise when driven over.

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