



MAIN INFRASTRUCTURE
MAINTENANCE & CONSTRUCTION



INFRARED ASPHALT PATCHING

RESTORING THE PAST
BUILDING THE FUTURE

WWW.MAININFRASTRUCTURE.COM

INFRARED ASPHALT PATCHING

At Main Infrastructure we strongly believe in the importance asphalt repairs and maintenance has on the life of your pavement surface. This is why we offer Infrared Patching, this method of asphalt repair and road repair services offers state of the art technology and application method that is a long lasting and inexpensive solution in comparison to conventional asphalt repair methods.

We are the only company in South of Ontario that offer Infrared Asphalt Patching and own all of our own state of the art Infrared equipment. The Infrared technology is still not widely known in Ontario and so we would like to introduce you to the principles of the Infrared and show you how you can apply these principles to permanent road repair and asphalt reclaiming.

We have discovered that there appears to be misinformation in our current market pertaining to "infrared" asphalt reclaiming and we hope that the following information will help to clear up some of the confusion. We hope this information package will help you to ask the right questions to determine your exact needs and specifications.



APPLICATIONS FOR INFRARED USAGE

- UTILITY CUTS
- POTHOLES
- MAN HOLE
- COVERS
- EXPANSION
- JOINTS
- KEY HOLES
- BIRDBATHS
- CATCH BASINS
- REWORKING CURBS
- UNDERGROUND CABLES
- PLACING RINGS FOR RESURFACING OVER MAN HOLES
- LEVELING SEAMS IN PARKING LOTS AND ROADWAYS
- BUILDING UP ROAD SHOULDERS AND DRAIN GUTTERS
- CRACKED AREAS WITH A BASE
- BRIDGE AND RAMP WORK
- LEVELING FROST HEAVES



Repairing asphalt by conventional methods is often unnecessary, and can be a very expensive and time-consuming process. While asphalt contractors who do not have infrared technology will always recommend conventional methods, they require a significant amount of equipment, material, and manpower – costing you considerably more. Results from conventional methods can also be far from permanent.

Even when done correctly, finished repairs performed using older methods are left with a cold seam where hot asphalt meets the existing pavement. This cold seam is the “weak link” and is where water will eventually re-enter the repaired area and cause it to fail.

Infrared thermal bond bituminous pavement patching is a method of blending new asphalt with infrared heated existing asphalt to create a joint-free integral patch. The machine is capable of heating the existing asphalt to a depth of approximately two inches without oxidation or burning. There is no flame in direct contact with the existing asphalt surface. The unit is also equipped with chambers which are capable of storing up to four ton of fresh bituminous materials at a consistent temperature.

ADVANTAGES OF INFRARED ASPHALT REPAIR

Time. Depending on air temperature, the entire process will take from 10 to 20 minutes. The old method, involving sawing, excavating, and repaving, can take days.

Convenience. Because the thermal bond patching machine hauls asphalt which it can heat and insulate, work can be done even when asphalt plants are not operating.

Quality. No new cold joints are created; therefore, cracks don’t develop between the old pavement and the repaired area.

Cost. The **thermal bond patching** method is usually substantially less expensive than the old method.

Start to finish, infrared asphalt repair is fast, minimizes inconvenience to users of the pavement, and produces a top-quality, seamless repair more efficiently and at a lower cost than “old-fashioned” repairs.

Municipalities, Utility Companies, Private Industry, or wherever pavement problems occur, we welcome the opportunity to solve your pavement patching problems and to demonstrate the quality and cost effectiveness of this method.

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