



Marathon Sealing FZE

Marathon Sealing FZE
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Mastic Application Method Statement



Finding Proper Cracks and joints for Mastic Application:

- 1- Surrounding Pavement Condition Index shall be Min. 60 to 70 good conditions.
- 2- Jobsite selection and types of cracks to be addressed and suitability for crack sealing are:

- Longitudinal & Lateral Wide Cracks
- Transverse Cracks
- Thermal Cracks
- Blocking Cracks (with low and Medium Tension)
- Crack Width: Starting from 5 cm to Max. 30 cm

The following cracks are not suitable for the mastic sealing jobs:

- Alligator Cracks
- Blocking Cracks with high tension
- Cracks resulting from the failure of base layers and settlement

Some candidates samples:

The mastic can be used on extra wide pavement cracks:



Pavement joint separation:



Bridge Approaches:





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Spalled concrete joints and slabs corners:



Utility cuts:



Other pavement distresses such as milled potholes or stressed areas:



Procedures:

Item 1 – CREATION OF THE RESERVOIR BY MARATHON CRACK ROUTER CR260 K – DRY ROUTING – If needed

Routing and creating reservoir on the existing cracks/joints/potholes with the router machine CR 260K at the nominal width of the crack or damaged area plus 20 mm on both sides and Maximum depth of 30 mm.



The routing will be performed on both sides to ensure solid reservoir walls.

The surface with severe condition shall be grinded or milled to the width of the stress area and Min. Depth of 25 mm.



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Item 2 – CLEANING OF THE ROUTED RESERVOIR AREA IN TWO STEPS

STEP 1-

Cleaning of the surface and surrounding pavement out of any debris by WIND BLOWER to clean up the pavement out of any dirt or dust.



STEP 2-

Cleaning inside of the routed joint/crack with air compressor out of any loose material before application of the Mastic, simultaneously heating the area with Hot Air Lance using gas if the temperature is less than 5 C and humidity is expected.



Item 3 – APPLICATION OF THE HOT APPLIED MASTIC WITH OIL JACKETED MARATHON MASTIC MIXER KETTLE

Level and Go Deery repair mastic is a hot applied pre-packed box ready to melt material which is composed of quality selected bitumen, selected fine aggregates, synthetic rubber polymers, anti-oxidants, that provides water proof, flexible, yet tough and durable repair system.

The process is quick and simple that requires no compaction and just leveling with manual scrapers is needed.



Item 4 – APPLICATION PROCESS AND LEVELING:

Mastic shall be heated in the thermostatically controlled mastic mixer that utilized oil as the heat transfer medium and has a full sweep horizontal agitator capable of gently lifting



the material from the bottom of the tank and turning it over and over all the time.



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The agitation shall be capable of mixing and suspending the materials filled with aggregates having a specific gravity as high as 3.0.



The heated repair mastic shall be spread & poured into the properly prepared pavement evenly.

The mastic should be recessed, leveled, and smoothed with the surrounding pavement surface to form a durable permanent repair. The fixed width of the recessed mastic will be set and defined for each project according to site condition.

Marathon oil jacketed kettle with a full sweep horizontal agitator that can maintain a pour temperature between 350 °F and 400 °F.



The heated material can then be applied directly, in layers if necessary, and smoothed to the surrounding edges to form a highly durable and long lasting patch. Cover aggregate can be broadcast onto the hot repair material and lightly tamped if desired for enhanced surface texture.



Item 5 – PERFORMED JOB MEASUREMENT

The performed jobs will be measured and preceded at each shift by both parties' representatives with measuring wheel per linear meter or square meter based on site condition.

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