

HMA CRACK TREATMENT INSPECTOR CHECKLIST

JOB NUMBER	ROUTE	INSPECTOR NAME	DATE
PRIME CONTRACTOR		SUBCONTRACTOR(S) (If applicable)	
WEATHER (Clear or Overcast, Temp, Humidity, etc.,)			

DOCUMENT REVIEW

QC Plan submitted by the contractor (See 502.03.G)
Material Source List(s)

MATERIALS (Per 505.02)

HMA CRACK SEALANT

Select applicable sealant material(s), note supplier of on-site material, compare with MSL submitted by the contractor and the applicable QPL

Saw or Rout and Seal (QPL 914.04A)
Overband Crack fill (QPL 502.02B)

CONSTRUCTION (Per 505.02)

EQUIPMENT

Compressed Air System
Equipped with moisture separator
Compressor produces 100psi and a continuous flow of 150 cfm

Melter Applicator

Boiler kettle equipped with pressure pump, hose, applicator wand
Shutoff control on applicator hose
Mechanical agitator in the kettle to continuously blend
Thermometers to monitor material temperature and heating oil temperature
Thermostatic controls for regulation up to 425 F

Application Wand is either of the following

Wand with V-shaped or U-Shaped squeegee
Round applicator head with concave underside

PAVEMENT PREPARATION

Cracks cleaned using compressed air or other tools to remove loose dirt, vegetation, and deleterious materials
Cracks are free of moisture
Cracks cleaned no more than 10 minutes before filling
Pavement surface is between 45°F and 85°F °F

CRACK TREATMENT METHODS

Primary Crack: Crack 1/8 inch to 1-1/4 inch wide with less than 25% of its length having secondary cracking
Secondary Crack: Series of parallel cracks with no or few interconnecting cracks to the primary crack

Rout and Seal Method

Primary transverse cracks to be sealed are less than 10 degrees off of perpendicular to the centerline
Temperature at time of application meets manufacturers recommendation: °F
Check reservoir meets the following: (7.5 in³ per foot of crack and a 1:1 width to depth ratio)

Width of rout: inch
Depth of rout: inch
(Width x Depth) x 12 = in³

Reservoir is centered over the crack
 Reservoir is filled flush with pavement surface
 Total width with Overband does not exceed 2.5 inches and 1/8 inch thick
 Reservoir is centered over the crack

Overband Method

Temperature at time of application meets manufacturers recommendation: °F
 Other than rout and seal cracks, all other primary and secondary cracks treated with overband
 Applied at 4 inches ± ½ inch wide and 1/8 to 3/16 inches thick
 Does overband obliterate existing pavement markings?
 Yes (Temporary markings shall be placed)
 No

Select the overband work type for this project (See 502.03.D.2)

Stand Alone Overband Crack Fill: Fill all cracks less than 1-1/4" wide

* Micro-Surfacing preparation: Fill all cracks less than 1-1/4" wide

* Chip Seal preparation: Fill all cracks from ¼" to 1-1/4" wide, 3 ft or longer

* Paver Placed Surface Seal (PPSS) preparation: Fill all cracks from ¼" to 1-1/4" wide, 3 ft or longer

* HMA Ultra-Thin Overlay preparation: Fill all cracks less than 1-1/4" wide

* When preparing pavement for a surface seal, do not seal multiple cracks that have raveled, multiple cracks that include broken asphalt, multiple longitudinal cracks in wheel paths

CURE TIME AND REPAIR (Per 502.03.F)

Material is cool before opening to traffic

If required, apply detackifying solution to uncured material to keep from tracking. Do not use blotting materials

Did traffic damage the treatment?

Yes (Repair treated areas at no cost to the department)

No

ACCEPTANCE (Per 502.03.H)

Select any deficiencies noted after completion of the project. Correct selected before project acceptance

Adhesion failure

Cohesion failure

Missed cracks

Other as determined by the engineer