

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
MULTIPOLYMER PAVEMENT MARKINGS

PMK:MKB

1 of 3

APPR:GJD:KJK:04-11-25
FHWA:APPR:04-11-25

a. Description. This work consists of preparing pavement surfaces and applying retroreflective white and yellow pavement markings including longitudinal lines, stop bars, crosswalks, symbols, legends, and cross hatching and/or non-retroreflective black “shadow” pavement markings. Complete this work in accordance with this special provision, the project plans, the standard specifications, and as directed by the Engineer.

b. Materials. Furnish pavement marking materials meeting the requirements of section 920 of the Standard Specifications for Construction.

1. For Applications on HMA. Use the following material or use an Engineer approved alternative.

- A. Ennis-Flint (PPG), HPS-8.
- B. Pavement Surface Coatings, Endurablend.
- C. Pavement Surface Coatings, Enduramark.

2. For Applications on PCC. Use the following material or use an Engineer approved alternative.

- A. Pavement Surface Coatings, Endurablend.
- B. Pavement Surface Coatings, Enduramark.

3. Furnish technical data from the material manufacturer regarding bead and/or wet reflective optic application rates to the Engineer prior to starting work.

c. Construction.

1. Surface Preparation. Ensure the pavement is free of excess surface and subsurface moisture that may affect bonding. The Engineer will not decide the suitability of specific days for the application of materials.

Surface preparation requirements for multipolymer pavement markings depend on surface conditions.

Prepare new HMA surfaces and HMA surfaces open to traffic for 10 days or less with no oil drips, residue, debris, or temporary or permanent markings, by cleaning the marking area with compressed air.

Prepare new PCC surfaces and PCC surfaces free of oil drips, residue, and debris, temporary or permanent markings, by removing the curing compound from or recessing the area required

for pavement markings.

Prepare existing HMA or PCC surfaces that do not have existing markings, but may have oil drip areas, debris, or both, by scarifying the marking area using non-milling grinding teeth or shot blasting. The Engineer will allow the use of water blasting to scarify the marking area on PCC surfaces.

Prepare existing HMA or PCC surfaces with existing markings of a different material by completely removing the existing markings. Prepare existing HMA or PCC surfaces with existing markings of the selected material and that may have oil drip areas, debris, or both, by using the following methods:

- a. For existing pavement markings of the selected material when placing a sprayed application, scarify the proposed marking area using non-milling grinding teeth or shot blast. Occasionally, existing pavement markings require complete removal, which will be determined by the Engineer.
- b. For existing pavement markings of the selected material when placing an extruded application, prepare the proposed marking area by completely removing the existing markings.

2. Placement. Use the temperature limitations recommended by the material manufacturer. Document the temperature before the start of each day of marking operations and at any other time deemed necessary by the manufacturer or the Engineer.

Apply extruded materials at a thickness of 100 mils. Apply beads and/or wet reflective optics in accordance with the manufacturer's recommendations.

Apply sprayed materials at a thickness of 60 mils. Apply beads and/or wet reflective optics in accordance with the manufacturer's recommendations.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at contract unit price using the following pay items:

Pay Item	Pay Unit
Pavt Mrkg, Multipolymer, (symbol).....	Each
Pavt Mrkg, Multipolymer, (legend)	Each
Pavt Mrkg, Multipolymer, __ inch, Crosswalk.....	Foot
Pavt Mrkg, Multipolymer, __ inch, Stop Bar	Foot
Pavt Mrkg, Multipolymer, __ inch, Cross Hatching (color).....	Foot
Pavt Mrkg, Multipolymer, __ inch, (color)	Foot
Pavt Mrkg, Wet Reflective Multipolymer, __ inch, (color)	Foot
Pavt Mrkg, Multipolymer, __ inch, Shadow Liquid, Black	Foot
2 nd Application Surface Preparation, for Multipolymer Spec Mrkg	Square Foot

2nd Application Surface Preparation, for Multipolymer Spec Mrkg includes scarification or full removal of the existing multipolymer special pavement markings as described in subsection c.1 above when installing multipolymer special pavement markings where multipolymer special pavement markings are already in place. Removal of curing compound, removal of existing pavement markings, and recessing for all other installations will be measured and paid for

separately under the associated pay items.