

PAVEMENT MARKINGS - MATERIAL AND APPLICATION VERIFICATION GUIDELINES

1 of 2

A. PAVEMENT MARKING MATERIAL VERIFICATION:

Pavement marking materials are found on the Qualified Products List (QPL). The required documentation of a QPL product is found in Section F of the Materials Qualification Assurance Procedures manual:

Documentation Requirements

2.1 Items incorporated into MDOT projects that are selected from a QPL are required to be documented by using one of the following methods:

2.1.1 Notation on an IDR by naming the manufacturer, product, and stating that the labeling of material was checked and verified.

2.1.2 Placement of label or copy of label, tag, etc. in the Project File.

1. The Pavement Marking Region Representative (PMRR) or the Designee charged with verifying the information in 2.1.above will visit all pavement marking storage yards in their Region. Form 1585, the Pavement Marking Material Product Verification Checklist, has been developed to assist in documenting materials at the yards. Photos of a label or the label itself can also be used for material identification details.

Form 1585: <http://apps.mdot.state.mi.us/interchange/forms/pdfforms/1585.pdf>

2. During the yard visit the PMRR can use form 1585 to help with material documentation requirements. Filling out **Part 2** will identify the materials visible at the yard. **Part 3** can be used to write the material documentation details. Photos of a label or the label itself can also be used for the material documentation requirements.
3. The PMRR must share information from the yard visits with all construction office / inspectors in the Region. The following is an example of a process that can be used:

Example:

Part 1 of form 1585 is filled in at the project office and then sent or e-mailed to the PMRR.

The PMRR fills out **Part 2** by checking the appropriate checkboxes of materials visible at the yard and signs at the bottom of page1.

The PMRR returns signed page 1 to the project office. Page 1 goes in the project file. Documentation requirements are complete.

Part 3 is for use by the PMRR should they desire to use the form during the yard visit.

B. PAVEMENT MARKING APPLICATION VERIFICATION:

1. The Prime Contractor provides advance notice of the striping schedule to the MDOT Project/Inspection Office. The Inspector needs enough notification to be able to place test plates according to the testing frequency, below. (Refer to Inspection Guidelines – Pavement Markings: http://mdotwas1.mdot.state.mi.us/public/tands/Details_Web/mdot_pavemark_inspect_guide.pdf)
2. Randomly place plates for verification of application rate – allowing an appropriate distance at the start for the Contractor’s striping truck to get up to speed.

Minimum Plate Requirements for All *Permanent Liquid Applied Materials – Construction Projects

Project Length > 2 miles – 2 Plates (minimum) per project

Project Length ≤ 2 miles – 1 Plate (minimum) per project

For projects less than ½ mile in length, Engineer may opt to V.I. pavement markings.

*These requirements also apply to Type NR Liquid Applied Materials if they will be in place over a winter.

Minimum Plate Requirements – Annual Region/TSC Striping Contracts

Waterborne - 2 Plates (minimum) per week

Sprayable Thermoplastic – 2 Plates (minimum) per week

4. MDOT Inspector checks plate for dry material thickness including beads, width of line, bead uniformity and line uniformity. Refer to Sections 811, 812 and 920 of the Standard Specification for Construction. See Table 1 below for dry mil thickness of liquid applied products.
5. On the IDR, note date, location, material type and if the line meets MDOT specifications. If it the plate meets specifications record this in the IDR and the process is complete. Plates that meet specifications do not have to be saved. If plate does not meet MDOT specifications, contact the Delivery Engineer for appropriate action. Record this information in the IDR. Plates that do not meet specifications should be saved until the problem has been resolved. Process is complete.

Table 1

Material	Dry Mil Thickness (Includes Beads)
Waterborne	Min 12 mils
Spray Thermo	Min 40 mils
Polyurea	Min 45 mils
Modified Urethane or other plural component material	Min 45 mils