



Signed by:
Matthew V. Springer, P.E.
BC60F6E8B584403...
04-21-26

METHYL METHACRYLATE (MMA) PAVEMENT MARKING:

(4-21-26)

Description

Apply Methyl Methacrylate (MMA) pavement marking to all road surfaces indicated in the contract using standard application equipment approved by the Engineer. Retroreflectivity shall be obtained through drop-on reflective media.

Materials and Application

MMA pavement marking material and application shall meet the applicable requirements of Sections 1087 and 1205 of the *Standard Specifications*. Use a methyl methacrylate listed on the NCDOT APL.

Finish the following material certifications for MMA in accordance with Article 106-3 of the *Standard Specifications*:

Methyl Methacrylate (MMA)	Type 2 Material Certification and Type 3 Material Certification
---------------------------	---

Construction Methods

(A) Surface Preparation

Remove any existing pavement markings and any material that would prevent the MMA pavement markings from bonding correctly. Use a removal method approved by the Engineer. Premarking will be incidental to other items in the contract. Unless directed by the Engineer, there will be no direct payment for interim paint.

(B) Application

Material preparation, application temperatures, and seasonal limitations should be in accordance with the manufacturer’s specification. Do not apply when the temperatures are at or near the dew point. Apply a test strip to determine if the surface is dry enough if there has been rain in the last 24 hours. Only apply markings to dry, clean surfaces. Where not specified in this special provision, construction methods shall be in accordance with Article 1205-3 of the *Standard Specifications*. Drop-on media shall be high performance glass beads listed on the NCDOT APL. For minimum initial retroreflectivity requirements and thickness requirements, see the tables below.

Markings that are not required to be retroreflective shall be skid resistant.

MINIMUM RETROREFLECTIVITY REQUIRMENTS FOR METHYL METHACRYLATE	
Color	Reflectivity
White	425 mcd/lux/m ²
Yellow	325 mcd/lux/m ²

THICKNESS REQUIREMENTS FOR METHYL METHACRYLATE	
Thickness	Location
30 mils above surface when dry	Edge lines, lane lines, gore lines, crosswalk lines, symbols, and characters
50 mils above surface when dry	Markings within preferential lanes and crosswalks

(C) Dry Time

Ensure installed material is track free in accordance with the manufacturer’s recommendations before exposing to traffic.

Measurement and Payment

Methyl Methacrylate Pavement Marking Line, __ “ , __ mils will be measured and paid as the actual number of linear feet of pavement marking lines satisfactorily placed and accepted by the Engineer. The quantity of solid lines will be the summation of the linear feet of solid line measured end-to-end of the line. The quantity of skip or broken lines will be the summation of the linear feet derived by multiplying the nominal length of a line by the number of marking lines satisfactorily placed.

Methyl Methacrylate Pavement Marking, __ mils will be measured and paid as the actual number of square feet of pavement marking lines satisfactorily placed and accepted by the Engineer.

Methyl Methacrylate Pavement Marking Characters, __ mils and *Methyl Methacrylate Pavement Marking Symbols, __ mils* will be paid as the actual number of symbols and characters satisfactorily placed and accepted by the Engineer.

Such prices and payment will be full compensation for all work covered by this section including, but not limited to, furnishing, surface preparation, primer, reapplication of molten pavement marking crossed by a vehicle, removal of all pavement marking materials spilled on the roadway surface; and repair of markings tracked by a vehicle.

Premarking will be incidental to other items in the contract. Unless directed by the Engineer, there will be no direct payment for interim paint. No direct payment will be made for black paint or tape.

Replacement of pavement markings that prematurely deteriorated, failed to adhere to the pavement, lacked reflectorization or were otherwise unsatisfactory during the life of the project or during the 12 month observation period as determined by the Engineer will be at no cost to the Department.

Payment will be made under:

Pay Item	Pay Unit
Methyl Methacrylate Pavement Marking Lines, __", __ mils	Linear Foot
Methyl Methacrylate Pavement Marking, __ mils	Square Feet
Methyl Methacrylate Pavement Marking Symbols, __ mils	Each
Methyl Methacrylate Pavement Marking Characters, __ mils	Each