

## 2207 - COLD PLASTIC PAVEMENT MARKING MATERIAL

### SECTION 2207

#### COLD PLASTIC PAVEMENT MARKING MATERIAL

##### 2207.1 DESCRIPTION

This specification covers cold plastic pavement marking materials for use on both concrete and asphalt surfaces.

##### 2207.2 REQUIREMENTS

Provide preformed pavement markings that comply with ASTM D 4505 with the following exceptions and additions:

- Delete all references to application temperatures.

**a. Retroreflectivity.** Provide pavement markings that comply with the following minimum retroreflectivity requirements in **TABLE 2207-1** using an acceptable 30-meter retroreflectometer:

TABLE 2207-1: COLD PLASTIC RETROREFLECTIVITY REQUIREMENTS	
COLOR	millicandelas/sq m/lux (min.)
White	250
Yellow	175

##### 2207.3 TEST METHODS

KTMR-9, "Field Evaluation of Pavement Marking Materials"  
ASTM D 4505

##### 2207.4 PREQUALIFICATION

Submit a sample of at least 100 linear feet of each color of material to the Engineer of Tests, Materials and Research Center, 2300 Van Buren, Topeka, KS 66611.

Provide material that complies with **subsection 2207.2**. In addition, the following Field Evaluation will be conducted:

- **Field Evaluation.** The material will be subjected to traffic conditions on both portland cement and asphalt surfaces for 6 months during the period of July through February. During this time, the material cannot pick up and retain road grime that causes more than a slight graying of the surface. A strong contrast must remain between the striping material and the pavement surface. At the end of the evaluation period, the material must be intact with no evidence of lifting, curling, breaking or displacement. After 6 months, the material must maintain minimum retroreflectivity values of 150 millicandelas/sq m/lux for white and 100 millicandelas/sq m/lux for yellow.

Field evaluation may be waived if a complete field test has been performed on the identical product by another state department of transportation or AASHTO test facility that includes both hot and cold weather conditions, and was a minimum of 6 months in duration. Forward an official copy of the test report along with evidence that the product referenced is identical to that submitted for prequalification to the Engineer of Tests for evaluation.

The material will be evaluated for compliance with this specification, and the manufacturer will be notified of the results. The Bureau of Materials and Research will maintain a list of qualified materials. Products will remain on the prequalified list as long as the Field Evaluations and Field Performance are satisfactory. Report any changes in formulation to MRC for review and evaluation to determine if requalification is necessary.

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### 2207.5 BASIS OF ACCEPTANCE

#### a. Long Line Markings.

- (1) Prequalification as stated in **subsection 2207.4**.
- (2) Satisfactory results of Verification Testing. Except for symbols, the Engineer will sample each lot or batch. The Engineer will cut perpendicular to the width from the end of the roll.

Pavement Marking width	Sample Size
4, 6 & 8 inch	12 inch
12 & 24 inch	6 inch

- (3) Compliance with **TABLE 2207-1**.

#### b. Preformed Symbols.

- (1) Prequalification as stated in **subsection 2207.4**.
- (2) Receipt and approval of a Type C certification as specified in **DIVISION 2600**. Include all lot numbers from the material used to fabricate the symbols.
- (3) Compliance with **TABLE 2207-1**.