

Product Evaluation

RE: Review of 3M Preformed Thermoplastic Pavement Markings

PRODUCT

3M Preform Thermoplastic Pavement Marking is a pavement marking product manufactured and distributed in Alberta by 3M Canada Company located in London, Ontario. Website: <https://www.3mcanada.ca/>

VENDOR CLAIMS AND INFORMATION

CLAIMS

3M Preformed Thermoplastic Pavement Marking is durable pavement marking composed of a material that has been designed for simple installation on roadways. It is designed to deliver excellent levels of retroreflective performance. It reseals pavement materials, adheres to application surfaces, and conforms to surface contours through a phase change process initiated using a propane torch or infrared heater.

DESCRIPTION

3M Preformed Thermoplastic Pavement Marking is simple to apply and requires the use of only a hand torch or infrared heater and some common surface preparation equipment. It is available in 90 and 125 mil thicknesses in four colors: White, Yellow, Blue and Green. Preexisting hydrocarbon and alkyd thermoplastic markings need not be completely removed, since it can bond to itself and old worn thermoplastic markings.

POTENTIAL USAGE

3M Preformed Thermoplastic Pavement Marking is suitable to application as roadway, intersection, pavement delineation and markings, including straight lines, arrows, symbols, and legends.

STANDARDS

- ASTM E1710 Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer
- ASTM E303 Measuring Surface Frictional Properties Using the British Pendulum Tester

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has no experience with this product

APPLICABLE STANDARDS

The Alberta Transportation specification for Durable Pavement Markings are as follows:
Alberta Transportation Highway Pavement Marking Guide
Standard Specification for Highway Maintenance 53.22: Permanent Pavement Markings
Specification for Highway Construction 5.20: Supply of Line Painting and Message Marking Materials

RECOMMENDATIONS

3M Preform Thermoplastic be listed as a Potential Product under Alberta Transportation Products List, Pavement Markings – Preformed – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

RESTRICTIONS ON USE

Caveat:

TRIAL PROJECTS

Rishi Adhikari

cc Innovations Evaluation Committee – Roger Skirrow,
Allen Rau, Wayne Mah, Kimberley Edmunds, Rokibul Khan