

KTMR-09 FIELD EVALUATION OF PAVEMENT MARKING MATERIALS (Kansas Central Lab Test KT-MR-09)

a. SCOPE

This test method is a field procedure to determine if a pavement marking material will successfully withstand actual traffic conditions. Application of the material may be by manufacturer's representatives or KDOT personnel. All traffic control will be provided and supervised by KDOT. Safety of the driving public and the installation/inspection crew is a prime concern.

b. SUMMARY OF THE METHOD

Pavement marking materials, when applied in accordance with the manufacturer's recommended procedures, must be weather resistant and show no appreciable change of color, lifting, shrinkage or loss of reflectivity during the evaluation period.

c. SELECTION OF THE TEST SITE

c.1. Select the test site(s) on asphalt and/or concrete pavement, as appropriate for the material being tested, which has a recorded ADT between 2000 and 6000. Sections should be where traffic is free rolling with no grades, curves, intersections or access points near enough to cause excessive braking or turning movements, where wear is uniform with full exposure to the sun throughout daylight hours, and areas which have good drainage. Select sections which have been open to traffic at least one year, and on which no construction or maintenance activity is scheduled for the period of the test.

c.2. Coordinate the test site location with the District and local Area Offices. Request traffic control support during installation of the test deck and any subsequent visits, which require close detailed inspection.

d. PROCEDURE

d.1. Ensure adequate traffic control is in place.

d.2. Follow the manufacturer's recommendations for application of the material, including any tamping, rolling, etc.

d.3. Apply two stripes of material transversely across a lane of traffic on each type of pavement for which it is being evaluated.

d.4. Apply a ten-foot stripe longitudinally along either the centerline or the edgeline, depending on the color.

d.5. Retain a sample of the material in the "as installed" condition to use as a baseline during subsequent observations. For sprayed or extruded materials, prepare the sample by laying an aluminum panel in the path of the applicator while applying the stripes in d.3 or d.4 above. Protect the sample by placing it in a heavy opaque envelope and storing it in a cool dark area.

d.6. Visit the site each month. Observe and record the performance of the material. Note any evidence of premature failure of any of the specified properties.

d.7. At the end of the specified test period, evaluate the material for compliance with the specifications.

(MTU - Chemistry)