1. **SCOPE**

   1.1. **Description of Test**

   This test method estimates the no-pick up time of a pavement marking paint from the time it is applied to when it will no longer be picked up by a tire of a vehicle.

   1.2. **Application of Test**

   The test results will be used to determine whether or not the paint meets the Specification for Manufactured Materials SMM 701-2 Fast Dry Traffic Paint - Section 3.5 Drying Properties.

2. **APPARATUS AND MATERIALS**

   2.1. **Equipment**

   A mechanical paint applicator (ie. Gardco Model No. AP-SS31530) capable of producing a test strip of wet paint 75 mm wide x 381 microns (ie. 15 mils) thick.

   A thickness gauge.

   A glass plate approximately 100 mm wide x 200 mm long x 3 mm thick.

   A weighted steel cylinder complete with a rubber wheel as shown. The rubber wheel should be made of a synthetic rubber or rubber like material meeting the requirements of HK 715 of ASTM Specification D2000. The total weight of the assembly should be 15325 ± 25 grams.

3. **PROCEDURE**

   3.1. **Test Procedure**

   Place the mechanical paint applicator at the upper end of the glass plate.

   Pour a sufficient quantity of well-mixed paint in front of the gate of the applicator.
Draw the paint applicator slowly toward the lower end of the glass plate panel at a uniform rate of 300 to 600 mm per second. Clean the applicator immediately after use.

Record the time immediately after the paint is applied to the nearest 5 seconds. This is the start point for the no-pick-up time of traffic paint.

Allow the test strip of wet paint to dry in a horizontal position at a temperature of 23 ± 2°C and a relative humidity of 50 ± 5%.

Occasionally touch the test strip of wet paint with the index finger to determine the extent of drying.

When the paint begins to feel almost dry, position the weighted steel cylinder so that the rubber wheel will come in contact with the paint.

Free roll the rubber wheel over the test strip of paint.

If no paint is picked up by the rubber wheel when rolled over the test strip, record the time of the rolling to the nearest 5 seconds. This is the end point of the no-pick-up time of pavement marking paint.

If paint does pick up on the rubber wheel, wait approximately 30 seconds before rolling the rubber wheel again.

If paint continues to be picked up on the wheel after the second rolling, repeat the above procedure until the end point of no-pick-up time is determined.

As many as three passes can be made before the rubber wheel needs to be cleaned. This can be done with a rag soaked in acetone. The rubber wheel should not be used after cleaning until all the solvent has evaporated.

4. **RESULTS**

4.1. **Reporting Results**

The no-pick-up time of a pavement marking paint is the elapsed time between the end and start point of the test.

The no-pick-up time is usually represented in terms of minutes and seconds (ie 2 min, 15 sec).
5. ADDITIONAL INFORMATION

5.1. Reference

ASTM D711

NOTE: WEIGHT, HANDLE, AND WHEEL ARE INDEPENDENT WITH RESPECT TO ONE ANOTHER.

FIGURE 210–2–1
TRAFFIC PAINT DRYING TIME WHEEL
## APPROVAL SHEET

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- Format of test procedure updated

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- Reviewed by the Materials Section of the Technical Standards and Policies Branch.

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- Nil

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