Standard Method of Test for

Flexibility of Traffic Paint

SCDOT Designation: SC-T-116 (10/04)

1. SCOPE

This test method outlines the procedure for determining the flexibility of traffic paint. This procedure is based on SCDOT Standard Specifications 604.02A.4.c.

2. REFERENCED DOCUMENTS

SCDOT Standard Specifications – 604.02A.4.c

3. APPARATUS

Doctor Blade capable of providing a film thickness of 5 mils.
30 Gage Tin Panel
Oven capable of maintaining a Temperature off 122º F
Frame and 0.5 inch Metal Rod
Wooden Rack – Slotted

4. TEST SPECIMENS

1 Quart Paint

5. PROCEDURE

Set the doctor blade level on 11 for a 5 mil thickness.
Place doctor blade on one end of the tin plate.
Place a drop of paint on the tin plate between the brackets of the blade.
Holding the end of the tin plate, draw down the doctor blade over the paint drop to form the wet film of the paint sample.
Place the tin plate containing the sample into one of the slots of the wooden rack.
Allow to air dry at room temperature for 18 ± 2 hours.

Traffic Markings

Bake the sample @ 122° F ± 4° F for 2 ± 0.25 hours.
Remove from oven and allow to cool @ room temperature for 30 ± 10 minutes.
Bend around a 0.5 inch metal rod.

The paint film shall withstand this test with no sign of film failure or loss of adhesion when viewed without the use of magnification.