

MP 711.00.20
ORIGINAL ISSUANCE: AUGUST 1985
1ST REVISION: SEPTEMBER 1988
REISSUED: JANUARY 1995
EDITED REVISION: SEPTEMBER 1996
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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
MATERIALS CONTROL, SOILS AND TESTING DIVISION

MATERIALS PROCEDURE

PAINT TESTING METHODS

- 1.0 PURPOSE
- 1.1 To set forth the standard test methods to be used in analyzing paint.
- 2.0 SCOPE
- 2.1 This procedure replaces the following Materials Procedures.
 - 2.1.1 MP 708.00.20 through 708.00.27
 - 2.1.2 MP 708.01.20 through 708.01.29
 - 2.1.3 MP 708.02.20 through 708.02.29
 - 2.1.4 MP 708.03.20 through 708.03.29
- 3.0 REFERENCES
- 3.1 American Society for Testing and Materials (ASTI) Section 6, Paint.
- 3.2 Federal Test Method Standard Number 141B.
- 4.0 TESTING METHODS
- 4.1 Table I contains the following information:
 - 4.1.1 Test
 - 4.1.2 Reference
 - 4.1.3 Test Method Number

5.0 GENERAL INFORMATION

- 5.1 Adhesion
(Film thickness greater than 125 μm) 3.1 D3359
(Method A)
- Adhesion
(Film thickness 125 μm or less) 3.2 D3359
(Method B)

5.2 Test Panel Preparation

- 5.2.1 Panels for testing shall meet the requirements of Federal Test Method 2011.

- 5.2.2 All coatings shall be applied at the normal field application thickness. Primers will be applied over panels which have been cleaned to a near white (SA 2-1/2) condition. All coatings which are part of a coating system shall be applied over the previous coating in the system.

5.3 Curing Conditions

- 5.3.1 All coatings except zinc primers shall be cured seven days prior to testing. The curing will be done in the laboratory under normal laboratory conditions of temperature and humidity.

- 5.3.2 Zinc primers shall be cured as in 5.3.1 except the cure period will be 10 days.

- 5.3.3 All coatings which require chemical resistance testing will be cured an extra 24 hours at 105-110°C.

- 5.4 Chemical analyses of pigments shall be conducted by ASTI test methods. In cases where no ASTI is available, Federal test methods or a mutually agreed to procedure shall be used.

- 5.5 Any test method not included in Table I shall be conducted according to ASTI, Federal Test or mutually agreed to procedures.

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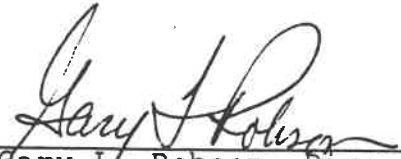
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- 5.6 Initial approval of a paint requires all specified tests be conducted. Subsequent batches, at the Division's option, may have randomly selected tests conducted.
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GLR:p

Attachment

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TABLE I

<u>Test</u>	<u>Reference</u>	<u>Test Method</u>
1. Density (Weight/Gallon)	3.1	D 1475
2. Consistency (Viscosity)	3.1	D 562
3. Drying Time	3.1	D1640
4. Drying (Traffic Paint-No Pick Up)	3.1	D 711
5. Pigment - Vehicle	3.2	4021
6. Total Solids	3.1	D 2369
7. Nonvolatile Vehicle	3.2	4051
8. Coarse Particles	3.1	D 185
9. Fineness of Grind	3.1	D 1210
10. Flexibility	3.2	6221
11. Condition in Container	3.2	3011
12. Water	3.2	4081
13. Color	3.1	D 2244
14. Working Properties	3.2	4541, 4321, 4331
15. Compatibility	3.2	4203
16. Storage Stability	3.1	D 1849
17. Specular Gloss (60°)	3.1	D 523
18. Skinning	3.2	3021
19. Chemical Resistant (Spot Test)	3.1	D 1308

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20.	Infrared Scan	3.1	D 2621
21.	Salt Spray	3.1	B 117
22.	Accelerated Weathering	3.1	G 53
23.	Leafing	3.1	D 480
24.	Adhesion	Section 5.1	This MP
25.	Chemical Analysis of Pigments	3.1	This MP
26.	Sampling	3.1	D 3925