

MP 711.00.20
ORIGINAL ISSUANCE: AUGUST 1985
1ST REVISION: SEPTEMBER 1988
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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.

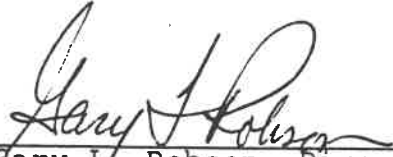
5.3.3 All coatings which require chemical resistance testing will be cured an extra 24 hours at 105-110°C.

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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- 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