



PAINT PERFORMANCE, STEEL WHEEL WEIGHTS

WSS-M2P142-B

1. SCOPE

This specification defines the performance requirements for coating over steel substrates exposed to severe exterior service conditions.

2. APPLICATION

This specification was released originally for coated and/or encapsulated wheel balance weights.

3. REQUIREMENTS

3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.2 COATING

Shall be a continuous film free of blisters, bubbles, foreign material, and similar imperfections.

3.3 INITIAL HARDNESS

Production parts shall be sufficiently cured at time of packing to withstand normal handling without marring.

3.4 CYCLIC CORROSION RESISTANCE

4 weeks

(Laboratory Accelerated Cyclic Corrosion Test CETP 00.00-L-467)

At test termination, wheel weight must have an acceptable 'as-installed' appearance based on a jury evaluation of at least two people, one person from Ford Wheels Engineering, and the other from either Ford Wheels or Materials Engineering.

3.5 PAINT ADHESION

5% max removal

(FLTM BI 106-01, Method C)

Lightly hand sand paint film surface (10 double rubs, moderate pressure) with P600 paper until dull, before scribe operation and checking adhesion.

3.6 THERMAL SHOCK TEST

19 Rating

(FLTM BI 107-05)

3.7 WATER RESISTANCE

240 h

(FLTM BI 104-01)

No blistering, no gloss change (FLTM BI 110-01, 25% max), no loss of adhesion, and/or any other coating failure. Adhesion shall be tested within 20 minutes after removal from water per paragraph 3.5.

Date	Action	Revisions	Rev. 01
2014 06 10	Revised	See Summary of Revisions	
2012 02 16	Activated		





3.8 FLUID SPOTTING RESISTANCE

(FLTM BI 168-01, Body & Exterior Trim,
Methods A and B, AATCC Evaluation

Procedure 1/ISO 105-A02. Perform adhesion testing per paragraph 3.5.)

Rating 4 - 5

No loss of adhesion

3.8.1 Gasoline Resistance

3.8.2 Diesel Fuel Resistance

3.8.3 Brake Fluid (DOT 3 or DOT 4)

3.8.4 Wheel Cleaner Resistance
(Motorcraft wheel cleaner - P/N ZC-37)

4. GENERAL INFORMATION

This information given below is provided for clarification and assistance in meeting the requirements of this specification. Contact gmfs@ford.com for questions concerning Engineering Material Specifications.

5. SUMMARY OF REVISIONS

2014 06 10

Changed Paint Adhesion Requirement from "No Loss of Adhesion" to "5% max removal".

Changed Thermal Shock Test Requirement from Rating 20 to Rating 19.