

TT-P-26C
 AMENDMENT-1
 June 23, 1977

FEDERAL SPECIFICATION

PAINT, INTERIOR, WHITE, TINTS AND BLACK, FIRE RETARDANT

This amendment, which forms a part of Federal Specification TT-P-26C, dated June 26, 1973, was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

PAGE 1

Under Federal Specifications:

Change "TT-P-143" to PPP-P-1892".
 Delete "LLL-F-321 - Fiberboard, Insulating" and substitute "LLL-I-535 - Insulation Board, Thermal and Insulation Block, Thermal".

Under American Society for Testing and Materials (ASTM) Standards, delete "D 2088 - Determination of Low Concentration of Lead in Paint".

Add:

D 1210 - Test for Fineness of Dispersion of Pigment-Vehicle Systems.
 D 1296 - Test for Odor of Volatile Solvents and Diluents.
 E 97 - Test for 45-Deg, 0-Deg Directional Reflectance of Opaque Specimens by Filter Photometry.

PAGE 2

Table I, last line, under maximum, delete "0.5" and substitute "0.06".

Paragraph 4.3 and Table II. Delete and substitute:

4.3 Test procedures. The paint shall be tested as indicated in table II and as specified hereinafter.

TABLE II. Inspection Schedule

Characteristics	Requirement Reference	Applicable Tests		Para. Ref.
		Fed. Test Method Std. No. 141	ASTM Method	
Condition in container	3.2.1	3011	---	---
Odor	3.2.2	---	D 1296	---
Color	3.2.3	4250	---	4.5.1
Skinning	3.2.4	3021	---	---
Brushing properties	3.2.6	---	---	4.5.2
Spraying properties	3.2.5	4331	---	4.5.3
Fungus resistance	3.2.7	6271	---	4.5.4
Scrubbability	3.2.8	---	---	4.5.5
Coarse particles and skins	Table I	4092	---	---
Dry opacity	Table I	4121	---	---
Drying time	Table I	4061	---	---
Fineness of grind	Table I	---	D 1210	---
Specular gloss	Table I	6101	---	---
Daylight reflectance	Table I	---	E 97	4.5.6
Lead content	Table I	---	---	4.7
Fire retardancy	3.3.2	---	---	4.5.7
Leaching test	3.3.3	---	---	4.5.8
Flexibility	3.3.4	6221	---	4.5.9
Flame-spread test	3.3.5	---	---	4.5.10

TT-P-26C

PAGE 4

Paragraph 4.5.2, line 2. Change "LLL-F-321" to "LLL-I-535".
 Paragraph 4.5.3, line 3. Change "LLL-F-321" to "LLL-I-535".

PAGE 5

Paragraph 4.5.6, line 1. Delete "Method 6121 of Fed. Test Method Std. No. 141" and substitute "ASTM Method E 97".

PAGE 6

Add new paragraph.

Paragraph 5.1, line 2 and line 5. Change "TT-P-143" to "PPP-P-1892".

4.7 Lead content.

4.7.1 Sample preparation. Using a 0.006-film applicator and a mechanical applicator plate, duplicate drawdowns for each sample of well-mixed paint shall be made on a standard paint penetration chart and dried for 24 hours. The drawdown shall be at least 10 inches long on the sealed portion of the penetration chart. The drawdown shall be cut into discs of appropriate size to fit the sample holder of a fluorescence X-ray spectrometer.

4.7.2 Procedure. Lead content shall be determined using an X-ray fluorescence spectrometer capable of determining lead content at a minimum level of 0.03 percent by weight of the total nonvolatile. The settings for a wavelength, dispersive fluorescence spectrometer shall be as follows: (1)

<u>Element</u>	<u>Analytical Line</u>	<u>Angle</u>	<u>Crystal</u>	<u>Detection</u>	<u>Colli-meter</u>	<u>X-ray tube (MO)</u>
Pb	L	33.93	LiF(200)	Flow S.C.	Fine	60Kv 45Ma
Pb (backgrd I)		33.00	LiF(200)	Flow S.C.	Fine	60Kv 45Ma
Pb (backgrd II)		35.50	LiF(200)	Flow S.C.	Fine	60Kv 45Ma
Mo	K	20.33	LiF(200)	Flow S.C.	Fine	60Kv 45Ma

Pulse height selection shall be used in all measurements and counting time shall be 100 seconds. Place the sample disc in the wavelength dispersive unit. Measure the count rates of lead, lead background and the Molybdenum Compton scattered background from the X-ray tube.

4.7.3 Calculation.

$$R = \frac{I_{Pb} - \frac{I_{Pb} (\text{Background I}) + I_{Pb} (\text{Background II})}{2}}{I_{Mo}}$$

where I equals gross intensity. These results shall be compared with those obtained by a 0.06 percent lead standard made up from the same type of paint sample and evaluated for compliance with table I.

PAGE 6

Paragraph 5.1, line 2 and line 5. Change "TT-P-143" to "PPP-P-1892".

(1) Energy dispersive fluorescence spectrometers shall be set up according to the manufacturer's manual.