TT-E-496B

AMENDMENT - 3

January 29, 1985

SUPERSEDING

Amendment - 2

August 22, 1972

FEDERAL SPECIFICATION

ENAMEL, HEAT-RESISTING (400°F, BLACK)

This amendment, which forms a part of Federal Specification TT-E-496B, dated Mav 11, 1967, is approved by the Assistant Administrator, Office of Federal Supply and Services, General Services Administration, for the use of all Federal agencies.

PAGE 1

Paragraph 2.1, under Federal Specifications: Change "TT-P-143" to "PPP-P-1892"

Delete "VV-G-109 - Gasoline, Unleaded"

Add "VV-G-1690 - Gasoline, Automotive, Leaded or Unleaded"

Add paragraph 2.2 as follows:

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on the date of invitation for bids or request for proposal shall apply.

American Society for Testing and Materials (ASTM) Standards:

- D 523 Specular Gloss
- D 1208 Common Properties of Certain Pigments
- D 1210 Fineness of Dispersion of Pigment-Vehicle Systems
- D 1296 Odor of Volatile Solvents and Diluents
- D 2698 Pigment Content of Solvent-Type Paints by High-Speed Centrifuging
- D 2805 Hiding Power of Paints
- D 3278 Flashpoint of Liquids by Setaflash Closed Tester
- D 3335 Low Concentrations of Lead, Cadmium, and Cobalt in Paint by Atomic Absorption Spectroscopy

(Application for copies should be addressed to the American Society for Testing and Materials, 1936 Race Street, Philadelphia, PA 19103.)

South Coast Air Quality Management District Rules and Regulations:

Rule 102 - Definitions

(Application for copies should be addresed to the South Coast Air Quality Management District, 9150 Flair Drive, El Monte, CA 91131.)

PAGE 2

Add paragraph 3.2.3 as follows:

- 3.2.3 Solvent. The volatile organic solvent used shall not be photochemically reactive as defined in South Coast Air Quality Management District Rule 102.
- Table I, Drying time: Delete "6" under minimum for each type and add "6" under maximum for each type.

Add "Lead, percent mass of nonvolatile" under characteristics and "0.06" under maximum.

PAGE 3

Paragraph 4.3.2. Add "and ASTM methods" after "141".

Paragraph 4.3.4, lines 1 and 2. Change "method 4401 of Fed. Test Method Std. No. 141" to "ASTM D 1296".

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Paragraph 4.3.11, line 4. Change "VV-G-109" to "VV-G-1690".

Paragraph 4.3.15. Change "Drying properties" to "Drying and baking properties".

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Delete "4.3.16 Baking properties". Wording beginning with "Type II" is part of 4.3.15.

Add new paragraph 4.3.17 as follows:

4.3.17 Specular gloss. Draw down the enamel on plane, opaque, white glass panels specified in 2.1.5 of method 2021 of Fed. Test Method Std. No. 141 with a film applicator to produce a wet film thickness of 76 \pm 2 um (0.003 \pm 0.0001 inch). Determine 60° specular gloss in accordance with ASTM D 523 after 48 hours drying at 23 \pm 1°C (73 \pm 2°F) and a relative humidity of 50 \pm 4 percent.

Add new paragraph 4.3.18 as follows:

4.3.18 <u>Lead content</u>. Determine lead in accordance with ASTM D 3335 or by the use of an X-ray fluorescence spectrometer capable of determining lead at a minimum range of 0.03 through 1.0 percent mass of nonvolatile with an accuracy within plus or minus 5.0 percent. The X-ray method shall be used in case of dispute.

Table II. Delete and substitute:

TABLE II				
		Test Methods		
	Requirement	Fed. Test Method	ASTM	Paragraph
Characteristics	Reference	Std. No. 141	Method	Reference
Nonvol <i>a</i> tile	Table I	4053		
Pigment	Table I		D 2698	
Drving time	Table I			4.3.15
Ash	Table I		D 1208	
Flash point	Table I		D 3278	
Fineness of grind	Table I		D 1210	
Specular gloss	Table I	·	D 523	4.3.17
Hiding power (contrast ratio)	Table I		D 2805 (1)	
Water content	Table I	4081		
Lead content	Table I		D .3335	4.3.18
Condition in container	3.4.1	3011		4.3.3
Odor	3.4.2		D 1296	4.3.4
Brushing, covering and leveling	3.4.3			4.3.5
Color	3.4.4			4.3.6
Flexibility	3.4.5	6221		4.3.7
Knife test	3.4.6	6304		4.3.8
Recoating	3.4.7			4.3.9
Reducibility	3.4.8			4.3.10
Gasoline resistance	3.4.9			4.3.11
Hot water resistance	3.4.10			4.3.12
Heat resistance	3.4.11			4.3.13
Shock resistance	3.4.12			4.3.14
Baking properties	3.4.13		·	4.3.15

(1) At a dry film thickness of 25 \pm 2 um (0.001 \pm 0.0001 inch)

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

MILITARY INTEREST:

CIVIL AGENCY INTEREST

MILITARY COORDINATING ACTIVITY:

COM - NBS

Army - ME

PREPARING ACTIVITY

CUSTODIAN

GSA - FSS

Armv - ME

REVIEW ACTIVITIES

Army - MI, AR

Project Number 8010-1106

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