

TT-E-490E
AMENDMENT-3
November 9, 1978

SUPERSEDING
Amendment-2
June 23, 1977

FEDERAL SPECIFICATION

ENAMEL, SILICONE ALKYD COPOLYMER, SEMI-GLOSS
(FOR EXTERIOR AND INTERIOR NON-RESIDENTIAL USE)

This amendment, which forms a part of Federal Specification TT-E-490E, dated September 25, 1975, was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies:

PAGE 1

Paragraph 1.1, delete second sentence and add, "Certain colors are formulated with lead-containing pigments (see table I) and shall not be used in residential structures."

Paragraph 2.1, under Federal Specifications, delete "PPP-P-1892 - Paint, Varnish, Lacquer and Related Materials; Packaging, Packing, and Marking of" and add PPP-B-636 - Boxes, Shipping, Fiberboard.

Under paragraph 2.1, Federal Specifications, add: "PPP-C-96 - Cans, Metal, 28-Cage and Lighter."

PAGE 2

Under paragraph 2.2, add:

National Motor Freight Traffic Association, Inc., Agent:

National Motor Freight Classification.

(Application for copies should be addressed to the American Trucking Associations, Inc., Traffic Department, 1616 P Street, N.W., Washington, DC 20036.)

Uniform Classification Committee, Agent:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

Paragraph 3.1, delete in its entirety.

PAGE 3

Footnote below table I, line 3, delete "0.5" and substitute "0.06".

Paragraph 3.2.1, line 6, delete "0.5" and substitute "0.06".

Paragraph 3.3.2.2, delete in its entirety.

PAGE 4

Paragraph 3.3.15, delete in its entirety.

PAGE 5

Table II, line 2, delete and substitute: "Silica (SiO₂) content, percent by weight of nonvolatile vehicle" with a minimum requirement of "24.0".

Table III, line 10, under minimum requirements, delete "37" and substitute "84".

TI-E-490E

PAGE 6

Table V, line 25, change requirements for color no. 2788b, off-white to the following: total solids, minimum, "65"; hiding pigment, minimum "24" and maximum, "28"; extender pigment, maximum, "20"; and vehicle solids, minimum "25".

Add paragraph 3.5 as follows:

3.5 Precautionary marking. All containers of paint shall be marked with a warning label.

3.5.1 All containers of paint which contain lead compounds in excess of 0.06 percent by weight (calculated as lead metal) in the total nonvolatile content shall be marked with the following warning notices.

"WARNING"
"CONTAINS LEAD. DRIED FILM OF THIS PAINT
MAY BE HARMFUL IF EATEN OR CHEWED."

"Do not apply on toys and other children's articles, furniture, or interior surfaces of any dwelling or facility which may be occupied or used by children."

"Do not apply on those exterior surfaces of dwelling units, such as window sills, porches, stairs, or railings to which children may be commonly exposed."

"Keep out of reach of children."

3.5.2 Containers of paint in which lead has not been specifically introduced but is not restricted to 0.06 percent shall carry the following label:

"WARNING"

"This paint is restricted to non-residential application. It has not been tested to ensure less than 0.06 percent lead content."

"Do not apply on toys and other children's articles, furniture, or interior surfaces of any dwelling or facility which may be occupied or used by children."

"Do not apply on such exterior surfaces of dwelling units as window sills, porches, stairs, or railings to which children may be commonly exposed."

"Keep out of reach of children."

Add paragraph 3.6:

"3.6 Quantities. The enamel shall be furnished in 1-quart, 1-gallon, 5-gallon, and 55-gallon quantities, as specified in the contract or order (see 5.2)"

Paragraph 4.2, delete in its entirety and substitute:

"4.2 Testing. Testing under this specification shall be for all requirements in section 3."

Paragraph 4.2.1, delete in its entirety.

Paragraph 4.2.2, delete in its entirety.

PAGE 7

Table VI, line 15, delete in its entirety.

Table VI, line 18, delete "silicone content" under characteristics and substitute "silica (SiO₂) content."

TT-E-490E

PAGE 8

Paragraph 4.3.4.2, delete in its entirety.

PAGE 9

Paragraph 4.3.17, delete in its entirety.

Paragraph 4.3.18, delete in its entirety and substitute:

"4.3.18 Toxicity. Method 5132 of Federal Test Method Standard No. 141 shall be used to determine the presence of chlorinated solvents and method 7356, procedure B shall be used to determine the presence of benzene for compliance with the requirement in 3.3.16."

PAGE 10

Paragraph 4.3.20, change "Silicone ($H_2Si_2O_7$) content of extracted vehicle" to Silica (SiO_2) content of extracted vehicle."

Paragraph 4.3.20.1.4, delete in its entirety and add:

Percent silica = $\frac{\text{Weight of ash} \times 100}{\text{weight of sample} \times \text{non-volatile vehicle fraction}}$

Paragraph 4.3.20.1.5, delete in its entirety.

Paragraph 4.3.21, delete the last sentence.

Paragraph 4.3.22, delete the last sentence.

PAGE 11

Paragraph 4.3.28, delete in its entirety and substitute the following:

"4.3.28 Inspection of preparation for delivery. An inspection shall be made to determine whether the packaging, packing, and marking comply with the requirements of section 5. The sample unit shall be one shipping container. Sampling shall be in accordance with MIL-STD-105. The inspection level shall be S-2 with an AQL of 4.0 percent defective."

Delete section 5 and substitute:

5. PREPARATION FOR DELIVERY

5.1 Packaging. Packaging shall be level A or commercial, as specified (see 6.2).

5.1.1 Level A. The 1-quart and 1-gallon quantities of enamel shall be packaged in metal cans conforming to PPP-C-96, type V, class 2. Exterior plan B coating and side seam striping shall be required. The cans shall be provided with wire handles which shall be galvanized or otherwise protectively coated to resist corrosion.

See paragraph 5.2.1 for the preparation for delivery of 5-gallon and 55-gallon quantities.

5.1.2 Commercial. The 1-quart and 1-gallon quantities of enamel shall be packaged in accordance with normal commercial practice. The complete package shall be designed to protect the enamel against damage during shipment, handling, and storage.

See paragraph 5.2.2 for the preparation for delivery of 5-gallon and 55-gallon quantities.

5.2 Packing. Packing shall be level A or commercial, as specified (see 6.2).

5.2.1 Level A. Twelve 1-quart cans or four 1-gallon cans of enamel, packaged as specified in 5.1, shall be packed in close-fitting boxes conforming to PPP-B-636, grade V1c, V1s, or V2s. The boxes shall be closed, waterproofed, and reinforced in accordance with the appendix to PPP-B-636. Alternatively, cleated plywood, wire bound or nailed wood boxes shall be acceptable shipping containers when lined with a waterproof barrier material. The edges of the barrier material shall be sealed with waterproof tape or adhesive.

