

INCH-POUND

MIL-C-46168D(ME)  
 AMENDMENT 3  
21 May 1993  
 SUPERSEDING  
 INT. AMENDMENT 2  
 21 March 1991  
 and AMENDMENT 1  
 5 August 1987

MILITARY SPECIFICATION  
 COATING, ALIPHATIC POLYURETHANE, CHEMICAL  
 AGENT RESISTANT

This amendment forms a part of MIL-C-46168D(ME), dated 21 May 1987 and is approved for use within the USA Belvoir Research, Development, and Engineering Center, Department of the Army and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

1.2.1, line 11, delete "Tan 686, 33440" and substitute "Tan 686A, 33446".

PAGE 2

\* 1.2.2, lines 6 thru 8, delete "Type III" in its entirety. Delete footnote at bottom of page.

2.1.1, under SPECIFICATIONS, FEDERAL, delete PPP-D-732 in its entirety.

PAGE 3

2.1.1, under SPECIFICATIONS, MILITARY, delete MIL-P-52192 in its entirety.

PAGE 4

2.2, under AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), delete D 659 and D 768 in their entirety and add:

- "D 4214 - Evaluating Degree of Chalking of Exterior Paint Films, Standard Test Method for.
- \* "D 3960 - Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings."

AMSC N/A

FSC 8010

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PAGE 6

3.3, line 2 on page 6, after "of the values listed" add "(see 6.9)".

Table I, line 7, Field Drab 33105, under Chromaticity y, delete "0.389" and substitute "0.383".

Line 15, delete "Tan 686, 33440" and substitute "Tan 686A, 33446", and under Infrared, Min., Max., delete "40.0" and "50.0" and substitute "62.0" and "72.0", respectively.

PAGE 9

Table V, line 5, delete "Tan 686, 33440" and substitute "Tan 686A, 33446".

PAGE 10

- \* Table VI, line 2, under "Phthalic anhydride", delete "types II and III" and substitute "type II".
- \* Lines 12 and 13, under "Viscosity", delete type III in its entirety.

PAGE 12

Table IX, line 16, delete "Tan 686, 33440" and substitute "Tan 686A, 33446".

PAGES 12 AND 13

- \* Table IX, headings for columns 2, 3, and 4, delete "II, III" and substitute "II".

PAGE 15

3.6.15, line 3, delete "ASTM D 659" and substitute "ASTM D 4214".

- \* 3.6.16, lines 2 and 3, delete "(except Chlorothene® SM or equivalent in type III), hydrolyzable chlorine derivatives,".

PAGE 19

4.3.3, line 6, delete "30 minutes" and substitute "60 minutes".

PAGES 22, 23, AND 24

- \* 4.3.7.1, delete in its entirety and substitute:  
"4.3.7.1 Volatile organic compound (VOC) determination. The VOC shall be determined in accordance with ASTM D 3960. Check for compliance with 3.4.4."

PAGE 25

- \* 4.3.15, lines 3 and 4, delete "type II is Chlorothene® or equivalent. The solvent for".

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- \* 2/, line 2, delete "1350 shakes" and substitute "615 cycles".

PAGE 27

4.3.22.2, line 3, delete "(ASTM D 768)".

4.3.25.1, line 3, delete "MIL-P-52192".

PAGE 28

4.3.26, line 5, delete "ASTM D 659" and substitute "ASTM D 4214".

PAGE 30

5.1.1.3 c, lines 1 and 2, delete "Alternatively, when specified (see 6.2), the 55 gallon drums shall conform to PPP-D-732."

PAGE 32

6.1, line 4, delete "MIL-P-52192".

6.2e, delete in its entirety.

PAGE 33

6.4.1, delete in its entirety and substitute:

"6.4.1 Qualification extension. Qualification testing shall be performed on the colors listed in the left column of table XI. Colors approved for qualification will extend to their respective colors listed in the right column after a satisfactory extension test program. The extension test program will test for color, infrared reflectance, accelerated weathering for only Aircraft Yellow 33538 and Red 31136, 60 and 85 degree gloss, DS2 resistance, chemical agent resistance, and acid resistance. Colors in the right column will be listed on the qualified products list if they satisfy the requirements of the extension test program. A quart sample and necessary paperwork is required for this testing."

- \* 6.6, delete in its entirety and substitute:

"6.6 Classification change. Type I and type III formulations have been discontinued."

After 6.8, add the following new paragraph:

"6.9 Color difference equation. The correct color difference equation is entitled "Hunter's Revised National Bureau of Standards (NBS) Color Difference Equation." One reference source is "Color in Business, Science and Industry," (Wiley, NY)."

PAGE 34

Table XI, line 6, under "Additional colors to which approval is extended", delete "Tan 686, 33440" and substitute "Tan 686A, 33446".

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Figure 11, title, delete "tan 686, 33440" and substitute "tan 686A, 33446".

The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletion) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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