

AEROSPACE MATERIAL SPECIFICATION



AMS 3138C

Issued OCT 1980
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Superseding AMS 3138B

Submitted for recognition as an American National Standard

(R) Coating Materials, Fluorocarbon (FKM) Elastomeric

1. SCOPE:

1.1 Form:

This specification and its supplementary detail specifications cover fluorocarbon (FKM) elastomeric coating materials for fiber-reinforced-resin composite structures in the form of two-component brushable or sprayable liquids.

1.2 Application:

These products have been used typically for protection of aircraft and missile radomes and other components from rain erosion, aerodynamic heating, precipitation static build-up, thermal flash exposure, and weathering, but usage is not limited to such applications.

1.3 Classification:

The requirements specified herein and in the applicable detail specification define each coating material on the basis of its primary usage and color which are shown in the title of each detail specification.

1.4 Safety - Hazardous Materials:

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.

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2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

AMS 3609	Plastic Sheet, Methyl Methacrylate, Heat Resistant
AMS 3831	Cloth, Type "E" Glass, "B" Stage Epoxy-Resin-Impregnated, 7781 Style Fabric, Flame Resistant, Improved Strength
AMS 3844	Cloth, Type E-Glass, Style 7781 Fabric, Hot-Melt, Addition-Type, Polyimide Resin Impregnated
AMS 3849	Cloth, Quartz, Style 581 Fabric, Hot-Melt, Addition-Type, Polyimide Resin Impregnated

2.2 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM D 471	Rubber Property - Effects of Liquids
ASTM D 1193	Reagent Water
ASTM D 1475	Density of Paint, Varnish, Lacquer, and Related Products
ASTM D 1644	Nonvolatile Content of Varnishes
ASTM D 1824	Apparent Viscosity of Plastisols and Organosols at Low Shear Rates by Brookfield Viscometer

2.3 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

FED-STD-595	Color
FED-STD-1313	Material Safety Data Sheets, Preparation of
MIL-R-7705	Radome, General Specification for
MIL-P-25421	Plastic Material, Glass Fiber Base-Epoxy Resin, Low Pressure Laminated

3. TECHNICAL REQUIREMENTS:

3.1 Detail Specifications:

The requirements for a specific coating material shall consist of all requirements specified herein in addition to requirements specified in the applicable detail specification. In case of conflict between requirements of this basic specification and an applicable detail specification, requirements of the detail specification shall govern.

3.2 Material:

The coating materials shall be pigmented, chemically room-temperature-curing fluoroelastomeric compositions with appropriate curing agents, in kit form, formulated to meet the requirements of 3.3.

- 3.2.1 Air Quality Compliance: Coating materials shall meet the requirements of the cognizant Air Quality Authority for the locality in which the coating material is applied.
- 3.2.2 Accelerated Storage Stability: Coating material components, stored uncatalyzed for 4 days ± 0.1 at $50\text{ }^{\circ}\text{C} \pm 1$ ($122\text{ }^{\circ}\text{F} \pm 2$), shall be free from lumps, skins, and gels, and shall disperse readily to smooth, homogeneous mixtures.
- 3.2.3 Long-Time Storage Stability: Coating material components, including the primer and primer accelerator if applicable, shall meet the requirements of this specification and the applicable detail specification after being stored for one year at 20 to $38\text{ }^{\circ}\text{C}$ (68 to $100\text{ }^{\circ}\text{F}$).
- 3.3 Properties:
- The product shall conform to the following requirements:
- 3.3.1 Mixed, Uncured Coating Materials: Shall meet the following requirements after mixing as in 4.5.1:
- 3.3.1.1 Nonvolatile Content: Shall be not lower than 10% by weight, determined in accordance with ASTM D 1644, Method A.
- 3.3.1.2 Weight Per Unit Volume: Shall be not lower than 7.6 pounds per gallon (0.91 kg/L), determined in accordance with ASTM D 1475.
- 3.3.1.3 Viscosity: Shall be 20 to 1000 centipoise (0.02 to 1.00 Pa·s) at $23\text{ }^{\circ}\text{C} \pm 0.5$ ($73\text{ }^{\circ}\text{F} \pm 1$) but shall not vary from the preproduction value by more than ± 150 centipoise (± 0.15 Pa·s), determined in accordance with ASTM D 1824 using a Model LVF Viscometer and No. 2 spindle.
- 3.3.1.4 Odor: Shall not be obnoxious.
- 3.3.1.5 Pot Life: Coating materials, stored at 20 to $30\text{ }^{\circ}\text{C}$ (68 to $86\text{ }^{\circ}\text{F}$) in closed containers for not less than 4 hours and mixed in accordance with manufacturer's instructions, shall show no evidence of lumping, seeding, or separation, shall meet the viscosity requirements of the applicable detail specification, and shall dilute readily to a viscosity suitable for application by spraying.
- 3.3.2 Application Properties: Coating materials, mixed as in 4.5.1 and applied in accordance with manufacturer's instructions, shall meet the following requirements:
- 3.3.2.1 Recoat Time: Rate of cure or drying of the coating shall be such that recoat time, or maximum set-to-touch time, after which a subsequent coat may be applied without solvent softening or damage to undercoats, shall be not more than 30 minutes.
- 3.3.2.2 Tack-Free Time: Shall be not more than 4 hours, as shown by no evidence of removal of the film, determined in accordance with 4.5.3.

- 3.3.3 Cured Coating Properties: Coating materials, mixed as in 4.5.1, applied in accordance with manufacturer's instructions, and cured for 7 to 10 days at $24\text{ }^{\circ}\text{C} \pm 2$ ($75\text{ }^{\circ}\text{F} \pm 4$) shall meet the following requirements and those of the applicable detail specification. Application of antistatic topcoating material over not-fully-cured base material shall not retard or inhibit curing of either the base compound or the antistatic topcoating.
- 3.3.3.1 Peel Strength: Shall be not lower than 5 pounds force per inch (876 N/m), determined in accordance with 4.5.4.
- 3.3.3.2 Fluid Resistance: Coatings shall show no leaching of pigment, loss of adhesion, blistering, or discoloration and shall meet the peel strength requirements of 3.3.3.1 after being immersed as in 3.3.3.2.1 and 3.3.3.2.2, determined in accordance with 4.5.5. Peel testing shall be performed in accordance with 4.5.4 within 1 hour after removal from fluid.
- 3.3.3.2.1 Immerse in ASTM D 1193, Type IV, water at $38\text{ }^{\circ}\text{C} \pm 1$ ($100\text{ }^{\circ}\text{F} \pm 2$) for 4 days ± 0.1 .
- 3.3.3.2.2 Immerse in ASTM Reference Fuel B (ASTM D 471) at $24\text{ }^{\circ}\text{C} \pm 2$ ($75\text{ }^{\circ}\text{F} \pm 4$) for 24 hours ± 1 .
- 3.3.3.3 Heat Resistance: Coatings shall show no evidence of melting, erosion, cracking, crazing, or other film deterioration, determined in accordance with 4.5.9.
- 3.3.3.4 Weather and Rain-Erosion Resistance: Coatings produced on specimens and exposed six months in accordance with 4.5.11 shall exhibit no peeling or blistering, or loss of rain erosion resistance when tested in accordance with 4.5.6. Property requirements shall be those specified in the applicable detail specifications.
- 3.3.3.5 Electrical Transmission: Shall be determined in accordance with 4.5.7 and shall meet property requirement of the applicable detail specification.
- 3.3.3.6 Surface Resistivity: Shall be determined in accordance with 4.5.8 and shall meet property requirement of the applicable detail specification.
- 3.3.3.7 Thermal Flash Resistance: Shall be determined in accordance with 4.5.10 and shall meet property requirement of the applicable detail specification.
- 3.4 Quality:
- 3.4.1 The coating components shall be uniform in quality and condition, homogeneous, and free from foreign material that would alter their use or function.
- 3.4.2 The applied coatings shall be smooth, continuous, uniform in thickness, and free from pinholes, cracks, bubbles, and other film imperfections.

4. QUALITY ASSURANCE PROVISIONS:

4.1 Responsibility for Inspection:

The manufacturer of the coating material shall supply all samples and shall be responsible for all required tests. Purchaser reserves the right to sample and to perform any confirmatory testing deemed necessary to ensure that the coating material conforms to the requirements of this specification and the applicable detail specification.

4.2 Classification of Tests:

4.2.1 Acceptance Tests: Tests for the following requirements are acceptance tests and shall be performed on each lot:

TABLE 1

Requirement	Paragraph Reference
Accelerated Storage Stability	3.2.2
Nonvolatile Content	3.3.1.1
Weight per Unit Volume	3.3.1.2
Viscosity	3.3.1.3
Odor	3.3.1.4
Pot Life	3.3.1.5
Peel Strength	3.3.3.1
Surface Resistivity, Topcoated Systems Only	See detail specification

4.2.2 Preproduction Tests: Tests for all technical requirements are preproduction tests and shall be performed prior to or on the initial shipment of a product to a purchaser, when a change in ingredients and/or processing requires reapproval as in 4.4.2, and when purchaser deems confirmatory testing to be required.

4.3 Sampling and Testing:

Shall be as follows:

4.3.1 For Acceptance Tests: A sufficient quantity of each coating material component shall be selected at random from each lot to perform all required tests. The number of determinations for each requirement shall be as specified in the applicable test procedure or, if not specified therein, not less than three.

- 4.3.1.1 A lot shall be all coating material produced in a single production run from the same batches of raw materials under the same fixed conditions, or all material subjected to the same unit chemical and physical process intended to make the final product homogeneous, and presented for vendor's inspection at one time. A lot shall not exceed 500 gallons (1893 L) and may be packaged in smaller quantities and delivered under the basic lot approval provided lot identification is maintained.
- 4.3.1.2 When a statistical sampling plan has been agreed upon by purchaser and supplier, sampling shall be in accordance with such plan in lieu of sampling as in 4.3.1 and the report of 4.6 shall state that such plan was used.
- 4.3.2 For Preproduction Tests: As agreed upon by purchaser and supplier.
- 4.4 Approval:
- 4.4.1 Sample coating material shall be approved by purchaser before coating material for production use is supplied, unless such approval be waived by purchaser. Results of tests on production coating material shall be essentially equivalent to those on the approved sample.
- 4.4.2 Manufacturer shall use ingredients, manufacturing procedures, processes, and methods of inspection on production coating material which are essentially the same as those used on the approved sample coating material. If necessary to make any change in ingredients, in type of equipment for processing, or in manufacturing procedures, manufacturer shall submit for reapproval a statement of the proposed changes in ingredients and/or processing and, when requested, sample coating material. Production coating material made by the revised procedures shall not be shipped prior to receipt of reapproval.
- 4.5 Test Methods:
- Shall be as follows:
- 4.5.1 Coating Material Preparation: Each container of coating material components to be used for tests of the uncured coating material or for preparation of coated specimens for testing of the cured coating shall be conditioned for not less than 24 hours at $24\text{ }^{\circ}\text{C} \pm 2$ ($75\text{ }^{\circ}\text{F} \pm 4$). Components of product supplied in kit form shall be thoroughly mixed in the proportions recommended by the manufacturer before sampling.
- 4.5.2 Specimen Preparation:

- 4.5.2.1 Specimen Material: Shall be laminates of epoxy-resin-impregnated glass cloth, any fabric type, conforming to any high-quality laminate material specification, such as AMS 3831, or MIL-P-25421, except that specimens for heat resistance (4.5.9) and thermal flash resistance (4.5.10) shall be laminates of AMS 3844 polyimide-resin-impregnated glass cloth or AMS 3849 polyimide-resin-impregnated quartz cloth of the size specified in the applicable test procedure. Specimens shall be of low void content and representative of high quality laminates. Specimens, except those for peel strength, shall be sanded with 180 grit (80 μm) abrasive paper to remove the gloss from the surfaces to be coated, detergent washed, and dried before being coated; specimens for peel strength tests shall be sanded on only one-half of the surface to be coated. When use of a primer is recommended by the coating material manufacturer, specimens shall be primed after washing and drying; peel strength specimens shall be primed on the sanded half.
- 4.5.2.2 Coating of Specimens: Specimens shall be coated with rain-erosion-resistant base compound to a cured film thickness of 12 to 14 mils (0.30 to 0.36 mm) or, when top coating with antistatic compound is specified, to a base compound thickness of not less than 10 mils (0.25 mm) and topcoated to a total cured film thickness of 12 to 14 mils (0.30 to 0.36 mm). Coatings shall be cured for not less than 10 days at $24\text{ }^{\circ}\text{C} \pm 2$ ($75\text{ }^{\circ}\text{F} \pm 4$).
- 4.5.3 Tack-Free Time: Shall be determined on flat panels $1/8 \times 3 \times 8$ inches (3.2 x 76 x 203 mm) prepared as in 4.5.2. A strip of polyethylene film 0.004 inch \pm 0.002 (0.10 mm \pm 0.05) thick by 1 x 6 inches (25 x 152 mm) shall be pressed on the surface of the coating with a 1 ounce (28 gram) weight (approximately 2 square inches (13 cm^2)) in area. The film shall be withdrawn at right angles to the surface of the coating. Tack-free time may be determined on the panels on which peel strength is to be determined, the film being applied to the sanded, or sanded and primed, end of the panel.
- 4.5.4 Peel Strength: Shall be determined on flat panels $1/8 \times 3 \times 8$ inches (3.2 x 76 x 203 mm) prepared as in 4.5.2. Two parallel cuts, 1 inch (25 mm) apart, shall be made through the coating to the substrate the full length of the panel. The 1 inch (25 mm) wide coating strip shall be peeled from the unsanded or unprimed end, dusted on both faces with talc, and heated in a circulating-air oven for not less than 3 hours at $150\text{ }^{\circ}\text{C} \pm 2$ ($302\text{ }^{\circ}\text{F} \pm 4$). After cooling to room temperature, the specimens shall be clamped in a tensile testing machine arranged to provide a 180 degree pull at a jaw separation rate of 2 inches (51 mm) per minute. Peel strength shall be reported as the average of the peak loads for all specimens. If the coating fails cohesively and does not separate from the panel surface, peel strength shall be reported as greater than the observed peak load.
- 4.5.5 Fluid Resistance: Shall be determined on flat panels $1/8 \times 3 \times 8$ inches (3.2 x 76 x 203 mm) prepared as in 4.5.2, three panels being immersed in each test fluid. After exposure, the panels shall be removed from the test fluid, wiped clean with lint-free paper towels or lint-free cloth, examined visually for deterioration of the coating, and the peel strength determined as in 4.5.4.
- 4.5.6 Rain-Erosion Resistance: Shall be determined as in 4.5.6.4 on airfoil-shaped specimens conforming to Figure 1 prepared as in 4.5.2; six specimens shall be tested after exposure under each of the following conditions:

- 4.5.6.1 As cured.
- 4.5.6.2 Aged in a circulating-air oven for 24 hours ± 0.25 at 205 °C ± 2 (401 °F ± 4).
- 4.5.6.3 After weathering as in 4.5.11.
- 4.5.6.4 Procedure: One specimen shall be mounted near the tip of each 0 degree pitch blade of a suitable diameter 2-blade propeller, driven horizontally by a variable speed motor designed to permit testing the specimens at a speed of 500 miles per hour ± 5 (805 km/h ± 8) at the test area of each panel. A suitable water ring, mounted above the rotating blade, shall be used to simulate a natural rainfall of 1.00 inch ± 0.01 (25.4 mm ± 0.3) per hour and an approximately 2-mm droplet size impinging on the center section of the panel. The propeller shall be rotated and the time for each specimen to be eroded through the coating shall be recorded. Report the average of the six erode-through times for each test condition.
- 4.5.7 Electrical Transmission: Shall be determined, using flat panels 0.050 to 0.055 inch (1.27 to 1.40 mm) thick by 24 inches (610 mm) square prepared as in 4.5.2, on equipment meeting the transmission efficiency test of MIL-R-7705 and in accordance with MIL-R-7705 and as follows; uncoated panels shall be used as controls:
- 4.5.7.1 Panels shall be subjected to one-way microwave power measurements at incidence angles of -30 to +30 degrees, using parallel and perpendicular polarization of the incident energy, at a frequency of 9.375 Gigahertz, after exposure to each of the following conditions:
- 4.5.7.1.1 One panel as cured and one uncoated panel.
- 4.5.7.1.2 The panels of 4.5.7.1.1 after exposure for 7 days at 38 °C ± 2 (100 °F ± 4) and relative humidity of 95% ± 5 .
- 4.5.7.1.3 One panel as cured and one control panel after weathering as in 4.5.11.
- 4.5.7.1.4 One panel after heating for 24 hours ± 0.5 at 250 °C ± 2 (401 °F ± 4).
- 4.5.7.2 The panel shall be clamped perpendicular to, and at the approximate midpoint between, the horns with the center of the panel coincident with the centerline of the horns. The clamp shall be of wood, shall extend the full length of the bottom edge of the panel, and shall cover not more than 1 inch (25 mm) of the edge. If the clamp causes interference, it shall be covered with absorbing material.

- 4.5.7.3 The panel, in the clamp, shall be mounted on a turntable with provisions for moving the panel through 0 to 70 degrees and for lateral movement of not less than 1 inch (25 mm). Readings shall be taken in maximum increments of 10 degrees and each 0.1 inch (2.5 mm) setting for angles up to 30 degrees. Test data shall be converted to, and reported as, percent transmission by the equation:

$$\% \text{Transmission} = \frac{T_s}{T_b} \times 100 \quad (\text{Eq. 1})$$

where,

T_s = Power transmission of coated panel at 20 degrees parallel polarization.

T_b = Power transmission of uncoated panel at 20 degrees parallel polarization.

- 4.5.8 Surface Resistivity: Shall be determined on the applicable coated panels of 4.5.7, after each conditioning of 4.5.7.1, as follows:
- 4.5.8.1 Equipment shall be a 500-VDC megohmmeter having a range of 1 to 1000 mL, suitable brass or steel wool faced, spring loaded electrodes, and an AMS 3609 acrylic plastic sheet 1/4 x 24 x 24 inches (6.4 x 610 x 610 mm) as shown in Figure 2.
- 4.5.8.2 Procedure: The template shall be placed over the panel to be tested. The two electrodes, with their leads connected to the megohmmeter, shall be placed to coincide, in turn, with each pair of holes in the template. A total of 17 readings, taken with uniform pressure of 3 to 5 pounds force (13 to 22 N) on the electrodes, shall be taken on each panel and the average of the readings reported.
- 4.5.9 Heat Resistance: Shall be determined on flat panels 1/8 x 3 x 8 inches (3.2 x 76 x 203 mm) prepared as in 4.5.2. Panels shall be heated in a circulating-air oven for 24 hours \pm 0.25 at 260 °C \pm 5 (500 °F \pm 9), cooled to room temperature, and examined.
- 4.5.10 Thermal Flash Resistance: Shall be determined on flat panels 1/8 x 4 x 4-1/2 inches (3.2 x 102 x 114 mm) prepared as in 4.5.2. The coating shall be exposed to a quartz lamp radiation source with spectral quality representative of 2200°K (3468°F) black body radiation with one thermal flash pulse of 80 fluence at 55 cal/cm² · second, and with multiple thermal flash pulses (not less than 3) of 120 fluence at 32 cal/cm² · second. Operational characteristics of the apparatus shall include a pre-set irradiance level and precise regulation of overheating and of contamination by pyrolysis gases.
- 4.5.11 Weather Resistance: Shall be determined on the airfoil-shaped specimens of 4.5.6 and on flat panels as in 4.5.7. The specimens shall be exposed for six months, beginning in March and ending in September, in southern Florida with the specimens mounted facing due south at an angle of 45 degrees and so positioned as to provide unobstructed exposure to sunlight throughout the day. Airfoil-shaped specimens shall have the leading edge of the specimens positioned as specified herein.

4.6 Reports:

The supplier of the product shall furnish with each shipment a report showing the results of tests to determine conformance to the acceptance test requirements and stating that the product conforms to the other technical requirements. This report shall include the purchase order number, lot number, AMS 3138C and the applicable detail specification number and its revision letter, if any, vendor's product designation, date of manufacture, and quantity of base compound and component materials.

- 4.6.1 A material safety data sheet conforming to FED-STD-1313, or equivalent, shall be supplied to each purchaser prior to, or concurrent with, the report of preproduction test results or if preproduction testing be waived by purchaser, concurrent with the first shipment of coating material for production use. Each request for modification of product formulation shall be accompanied by a revised data sheet for the proposed formulation.

4.7 Resampling and Retesting:

If any specimen used in the above tests fails to meet the specified requirements, disposition of the product may be based on the results of testing three additional specimens from the same lot for each original nonconforming specimen. Failure of any retest specimen to meet the specified requirements shall be cause for rejection of the product represented and no additional testing shall be permitted. Results of all tests shall be reported.

5. PREPARATION FOR DELIVERY:

5.1 Packaging and Identification:

- 5.1.1 The base coating material and the anti-static coating material shall be packaged in suitable airtight 1 quart (1 L) or 1 gallon (3.8 L) containers, as ordered. Each container of base coating material and each container of antistatic coating material shall be packaged as a kit with the appropriate amount of catalyst for each container of coating material packaged in a suitable container and attached to the coating material container. When the manufacturer requires a primer to be applied prior to coating application, the manufacturer shall recommend a suitable primer and provide recommended sources for procurement. Instructions for use of the primer shall be included on the fluoroelastomer application instructions provided with the coating material.
- 5.1.2 Containers of base coating material, of primer when required, and of anti-static coating material shall be packaged in individual kit-type containers with the respective required catalyst. When specified, if thinner is required to prepare the coating materials for spraying, sufficient thinner shall be included in a suitable container with each kit-type package. Mixing and application instructions shall be included in each package along with appropriate warnings, precautionary notices, and antidote or emergency medical procedures.

5.1.3 Identification: Each container shall be legibly identified with a durable label containing not less than the following information, using characters which will not be obliterated by normal handling:

 * COATING, FLUOROCARBON ELASTOMERIC

AMS 3138C/ **

MANUFACTURER'S IDENTIFICATION _____

DATE OF MANUFACTURE _____

LOT NUMBER _____

QUANTITY _____

PERISHABLE - STORE BELOW 38 °C (100 °F)

APPROPRIATE WARNINGS OR PRECAUTIONARY NOTICES

VOLATILE ORGANIC CONTENT (VOC), (kg/L) _____

 * Add appropriate word(s) or code from applicable detail specification, such as BASE, BASE CATALYST, ANTI-STATIC, ANTI-STATIC CATALYST, PRIMER, or PRIMER CATALYST.

 ** Add applicable detail specification number.

- 5.1.4 The individual kit-type containers shall be packed in an exterior shipping container to protect the product during shipment and storage.
- 5.1.5 Each exterior shipping container shall be legibly marked with not less than the information specified in 5.1.3 and, in addition, the purchase order number, in such a manner that the markings will not smear or be obliterated during normal handling or use.
- 5.1.6 Containers of coating materials shall be prepared for shipment in accordance with commercial practice and in compliance with applicable rules and regulations pertaining to the handling, packaging, and transportation of the coating material to ensure carrier acceptance and safe delivery.

6. ACKNOWLEDGMENT:

A supplier shall mention this specification number and the applicable detail specification number and their revision letters, if any, in all quotations and when acknowledging purchase orders.

7. REJECTIONS:

Coating material not conforming to this specification and the applicable detail specification, or to modifications authorized by purchaser, will be subject to rejection.

8. NOTES:

- 8.1 The change bar (I) located in the left margin is for the convenience of the user in locating areas where technical revisions, not editorial changes, have been made to the previous issue of this specification. An (R) symbol to the left of the document title indicates a complete revision of the specification.

- 8.2 Dimensions and properties in inch/pound units and the Celsius temperatures are primary; dimensions and properties in SI units and the Fahrenheit temperatures are shown as the approximate equivalents of the primary units and are presented only for information.
- 8.3 Purchase documents should specify not less than the following:
- Title, number, and date of the applicable detail specification
 - Coating system components desired (See 3.1)
 - Size of coating material containers desired
 - Quantity of coating material desired
 - Special packaging, if required
- 8.4 Products meeting the requirements of this specification have been classified under Federal Supply Classification (FSC) 8010.

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