

METRIC
A-A-2786**March 31, 1992****COMMERCIAL ITEM DESCRIPTION****PRIMER COATING (AEROSOL, LEAD AND CHROMATE FREE)**

This General Services Administration has authorized the use of this commercial item description.

SALIENT CHARACTERISTICS

The primer shall be furnished in nominal 475 mL (1-pint) commercial pressurized dispensers. The contents shall be dispersible by not more than 60 seconds hand shaking. The valve shall operate easily with moderate finger pressure and close immediately upon release. The spray shall not sputter and a smooth uniform film shall be deposited. The can shall deliver a minimum of 98 percent by weight of contents. The primer shall not contain halogenated solvents nor propellants.

Color. The color of the primer at complete hiding shall approximately match the color specified. (ASTM D 1729)

Flexibility.¹ The topcoated primer (30 minute air dry, baked 24 hours at 95° to 105° C) shall bend over a 1/8 inch mandrel without cracking or flaking. (Method 6221, FED-STD-141)

Lacquer resistance. Primer films topcoated after the primer has dried for periods of 15 min, 8 hours and 48 hours shall show no bleeding, wrinkling or lifting.

Water resistance. Primer films air-dried 48 hours shall show no wrinkling or blistering after 24 hours immersion in distilled water.

Hydrocarbon resistance. Primer films air-dried 48 hours shall show no wrinkling or blistering after 4 hours immersion in hydrocarbon fluid (TT-S-735, Type III) at room temperature.

Salt spray resistance. Primer films air-dried 72 hours, scribed with intersecting lines exposing the substrate and exposed to 1000 hours of 5 percent salt spray shall show no blistering, lifting or substrate corrosion. (B 117)

Quantitative Requirements	Limits	ASTM Test Method
Dry hard, minutes ¹	15 max	D 1640
Dry through, hours ¹	2 max	D 1640
Solids volume, milliliters	55 min	D 2697
60° specular gloss ¹	6 max	D 523
Lead, % of dried film	0.06 max	D 3335
Hexavalent Chromium ²	none	—

The issues of the referenced test methods in effect on the date of the solicitation shall be used to determine compliance with stated requirements.

Material Safety Data Sheets. Material Safety Data Sheets (MSDS) shall be submitted in accordance with FED-STD-313.

CERTIFICATION. The contractor shall certify that the product offered meets the salient characteristics of this description, and that the product conforms to the producer's own drawings, standards, and quality assurance practices, and is the same product sold in the commercial marketplace. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be provided for under the provisions of the contract.

PRESERVATION, PACKAGING, PACKING, LABELING AND MARKING. The preservation, packaging, packing, labeling and marking shall be as specified in the contract or order.

DISTRIBUTION STATEMENT A: Approved for public release. Distribution is unlimited. **FSC 8010**

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Notes:

FED-STD-141 is available from GSA Business Service Centers in Boston, MA; New York, NY; Washington, DC; Philadelphia, PA; Atlanta, GA; Chicago, IL; Kansas City, MO; Fort Worth, TX; Denver, CO; San Francisco, CA; Los Angeles, CA; and Auburn, WA.

ASTM Standards are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

NOTE 1. Panel preparation (all except flexibility). Test panels shall be 75 by 150 mm (3 by 6 inch) aluminum alloy (QQ-A-250/4, T3 temper) treated with materials meeting MIL-C-81706 to produce coatings conforming to MIL-C-5541. The test panel for flexibility shall be prepared in accordance with method 2012, FED-STD-141. The primer shall be sprayed to a dry-film thickness of 0.015 - 0.022 mm (0.0006 - 0.0009 inch). For tests requiring a topcoat, the primed panels (after 30 minutes drying) shall be coated with 2 coats of lacquer (TT-L-32, Blue 15193, NSN: 8010-00-598-5455) applied 30 minutes apart each with a dry film thickness of 0.020 - 0.025 mm (0.0008 - 0.0010 inch).

NOTE 2. Add 5 ml 25 percent aqueous KOH to 1/2 gram extracted pigment in a centrifuge tube. Agitate by shaking and centrifuge. A yellow color in the supernatant liquid indicates the presence of hexavalent chromium.

PREPARING ACTIVITY

GSA - FSS

Project 8010-0197