

[METRIC]

A-A-2850

February 3, 1994

**COMMERCIAL ITEM DESCRIPTION  
COATING COMPOUND, WATERBORNE POLYMERIC  
(INTERIOR, WOOD)**

The General Services Administration has authorized the use of this commercial item description for all Federal Agencies.

**1. SCOPE.** This description covers a low VOC clear waterborne polymeric coating in three gloss levels for application by brush or spray. The coating is intended for use as a topcoat on interior wood, but is not suitable for use on floors.

**2. CLASSIFICATION****TYPE I Brushable**

Class 1 - Gloss

Class 2 - Semigloss

Class 3 - Satin

**TYPE II Sprayable**

Class 1 - Gloss

Class 2 - Semigloss

Class 3 - Satin

**3. SALIENT CHARACTERISTICS.**

Characteristic	Minimum	Maximum	Test
Volatile Organic Content (g/L)	—	250	ASTM D 2389
Nonvolatile content, % by weight	30	—	ASTM D1844 A
Drying time, hours (@ 38 microns (1.5 mil) wet film thickness)			FED-STD-141
Set to touch	—	1/2	Method 4061
Dry through	—	24	

**3.1 Condition in container.** The material shall be free from foreign matter and readily dispersible to a homogeneous mixture after five minutes of hand stirring.

**3.2 Color.** When coated on a white Leneta card, the difference between the directional reflectance of the coated card and an uncoated white Leneta card shall not be more than 2%.

**3.3 Chemical resistance.**<sup>1/</sup> There shall be no discoloration, stain, or whitening that will not disperse with ordinary polishing after testing the topcoat for the following resistance's. A volume of 3 cc's of the chemical shall be dropped on horizontal panels, and allowed to stand for 24 hours. The panels shall then be sponge washed with distilled water and dried with a clean cloth. The chemicals used shall be coffee (prepared with 1 tsp. instant coffee per cup of water at 43°C), vinegar, ketchup, mustard (allow to stand for 1 hour only), 50% ethanol, detergent, butter, and boiling water. The coating shall also be tested for cosmetic stains as specified in ASTM D 2571.

**3.4 Adhesion.**<sup>1/</sup> The topcoat shall adhere tightly to a panel after tape has been applied and removed from an area cut with a craftsman's knife (ASTM D 3359 A).

Beneficial comments, recommendations, additions, deletions, clarification's, etc. and any data which may improve this document should be sent to: General Services Administration, Engineering and Commodity Management Division (9FTE-10), 400 15th St. SW, Auburn, WA 98001

FSC 8010

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## A-A-2850

**3.5 Cold check.**<sup>1/</sup> The panel shall exhibit no checking or cracking when exposed to 4 temperature cycles (ASTM D 1211).

**3.6 Specular gloss.**<sup>2/</sup> The 60 degree specular gloss shall be as specified for the appropriate class (ASTM D 523).

Class 1: 60 minimum

Class 2: 20-60

Class 3: 20 maximum

**3.7 Self-lifting.**<sup>1/</sup> Recoat the film with the same topcoat 8 hours after initial coating and examine after a period of 2 hours. There shall be no self-lifting or any other evidence of film irregularities.

**3.8 Brushing properties (Type I only).**<sup>1/</sup> When brushed on a vertical panel at a wet film thickness of 50-75 microns (2-3 mils), the topcoat shall not pull or sag, and shall dry to a smooth uniform film free of streaks, blisters and lap marks.

**3.9 Spraying properties (Type II only).**<sup>1/</sup> When sprayed onto a test panel from a distance of 15-20 cm (6-8 inches) to a wet film thickness of 50-75 microns (2-3 mils), the wet film shall show no sagging, running, or fogging, and the dried film shall exhibit no irregularities.

## 4. REGULATORY REQUIREMENTS.

**4.1 Priority 17 pollutants.** The manufacturer shall certify that the product does not contain any of the 17 target chemicals on the EPA 33/50 program list. These chemicals are: benzene, cadmium & compounds, carbon tetrachloride, chloroform, chromium & compounds, cyanides, lead & compounds, mercury & compounds, methyl ethyl ketone, methyl isobutyl ketone, methylene chloride, nickel & compounds, tetrachloroethylene, toluene, trichloroethane, trichloroethylene, and xylenes.

**4.2 Ozone depleting compounds.** The manufacturer shall certify that the product does not contain any of the Class I or Class II ozone depleting compounds, as listed in the Federal Register notice of July 30, 1992 (57 Fed Reg. 33753), which include chlorofluorocarbons, halons, carbon tetrachloride, methyl chloroform, hydrochlorofluorocarbons and any other substances designated by EPA regulation at a later date.

**4.3 Recovered materials.** The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

## 5. QUALITY ASSURANCE PROVISIONS.

**5.1 Contractor certification.** The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this Commercial Item Description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

**6. PACKAGING.** Packaging and packing shall be as specified in the contract or order.

**A-A-2850**

**7. NOTES.**

**7.1 Addresses for obtaining copies of referenced documents.**

ASTM Standards are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103. The issue of the ASTM test methods in effect on the date of the solicitation shall be used to determine compliance with these requirements.

Information on the EPA 33/50 program is available from USEPA 33/50 Program (TS-792A), 401 M Street SW, Washington, DC 20460.

**7.2 Testing standards and footnotes.**

1/ Panels shall be a hardwood plywood. Apply three coats at a wet film thickness of 50-75 microns (2-3 mils), allowing 30 minutes between each coat. The panels shall be allowed to dry overnight before testing.

2/ Panels used shall be Leneta cards, coated with three coats at a wet film thickness of 50-75 microns (2-3 mils) each, allowing 30 minutes between each coat. The cards shall be allowed to dry overnight before testing.

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