[Metric]
A-A-3003B
November 10, 2009
Superseding
A-A-3003A
October 21, 2004

COMMERCIAL ITEM DESCRIPTION
Lacquer, Spraying, Clear and Pigmented for Interior Use

The General Services Administration has authorized the use of this commercial item description in lieu of Federal Specification TT-L-58E. It is recommended that Federal Agencies use it in procurement.

1.0 SCOPE. This description covers two types and classes of low VOC, spray applied, clear and pigmented lacquer intended for interior use on properly prepared metal and plastic surfaces, and sealed wood surfaces.

2.0 CLASSIFICATION

2.1 Type I – Clear; Class 1 – gloss; Class 2 – semi-gloss
2.2 Type II – Pigmented; Class 1 – gloss; Class 2 – semi-gloss

3.0 SALIENT CHARACTERISTICS

Characteristics	Requirements	Methods
(1) Nonvolatile, Type I (liquid weight basis)	26.0% minimum	ASTM D 1644
(2) Volatile Organic Content (VOC) (less water and exempt solvents)	340 gms/L max (note 1)	EPA Test Method 24 (see note 2)
(3) Drying time		
"dry-to-touch"	10 minutes	ASTM D 1640-83
"dry-through"	2 hours	ASTM D 1640-83
(4) Adhesion	3B rating or better	ASTM D 3359 (note 3)
(5) Viscosity (No. 4 Ford Cup)	15-35	ASTM D 1200
(6) Specular gloss (geometry)		
gloss finishes @ 20° angle	75% min. reflect.	ASTM D 523 (note 3)
semi-gloss @ 60° angle	40-60% relfect.	ASTM D 523 (note 3)
(7) Contrast Ratio, Type II, dry Film @ 25.0 µm (1.0 mil)		
reds and yellow	0.80	ASTM D 2805
white	0.90	ASTM D 2805
all other colors	0.95	ASTM D 2805
(8) Lead Free	<0.009%	ASTM D 3335
(9) Color: Type I, Class 1 and 2	Std. No. 3	Gardner Color Std.
Type II, Class 1 and 2	CIELAB $\Delta E < 1$ using specified color chip	ASTM D2244 FED-STD-595

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Heartland Supply Operations Center, Engineering and Commodity Management Division, GSA/FAS/QSDKC, 1500 E. Bannister Rd, Atrium, Kansas City, Missouri 64131.

3.2 Qualitative Requirements

3.2.1 Consistency. The Type I packaged product shall be clean, clear, and contain no sediment or gelation. The Type II packaged product shall be free from skins, gels, lumps, "livering", grit, seeds, particulates and undispersable sediment. Separated product shall be easily dispersible by hand stirring to a smooth and homogeneous mixture.

3.2.2 Spraying Properties. The lacquer product shall level out to a smooth, uniform coating, which free of any defects. The lacquer shall not clog either an air atomized or airless spray gun. The lacquer shall be reduced in accordance with the manufacturer's directions. Spray the lacquer onto a steel panel, prepared in accordance with ASTM D 609 to a dry film thickness of 25 ± 3 µm. Observe for spraying properties in accordance with Method 4331 of the current version of FED-STD-141.

3.2.3 Self lifting. Recoat the lacquer film prepared in accordance with paragraph 3.2.2, after 10 minutes and 48 hours of the initial coat. There shall be no visible solvent effects such as film lifting, blistering, wrinkling or any kind of surface defect indicating the first coat is being stripped from the substrate.

3.2.4 Water and alcohol resistance. (Note 4). There shall be no visual defects, softening or discernable difference between wetted and unwetted portions of the test film. A 10% loss of original gloss is permitted, without buffing. Immerse ½ of a test panel under drawn tap water at 15-20°C (59-69°F) for 18 hours. "Blot" the panel dry with a soft tissue and wait for one hour before inspection. Under a watch glass, apply 3 drops of denatured ethyl alcohol to a portion of the test panel and repeat inspection as above.

4.0 REGULATORY REQUIREMENTS.

4.1 Recovered Material. To the maximum extent practical, the manufacturer is encouraged to use recovered material(s) in accordance with Public Law 94-580.

4.2 Material Safety Data Sheets. Material Safety Data Sheet (MSDS) shall be submitted in accordance with the current version of FED-STD-313.

5. QUALITY ASSURANCE PROVISIONS.

5.1. Quality Statement. The products provided shall conform to the producer's own drawings, specifications, standards, and quality assurance practices and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

5.2. ASTM. Use the latest method in effect on the date of the solicitation or order. In case of cancellation of a method, the Contractor shall obtain a copy and test in accordance with method revision prescribed herein. ASTM standards and test methods are available from the American Society for Testing and Materials, 100 Barr Harbor Dr., West Conshohocken, PA 19428-2959.

5.3. Essential Acceptance Tests. Essential acceptance tests are marked with an asterisk "*".

6. NOTES.

1 340 gms/L meets Regulation 8, Rule 24, of the Bay Area Air Quality Management District, San Francisco, CA.

2 EPA Method 24, is described in 40 CFR (Code of Federal Regulations), Part 60, July 1, 1995, or later method/amendment if superseded.

3 Adhesion and Specular Gloss panel(s). To a primed or anodized 25 cm x 25 cm (approximate) aluminum panel of any thickness or alloy, spray a film of lacquer that will result in a minimum dry film thickness of 25 ± 2.5 µm when dried for 48 hours at 15-20°C and 45-55% relative humidity.

4 Water and alcohol resistance. Prepare the panel in accordance with note 3, however free panel edges may be hot paraffin wax sealed prior to the soak tests.

Military Custodians:
Army - MR
Navy - SH
AF - 99

Lead Standardization Activity
Navy - AS

Preparing Activity:
GSA-FAS