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April 30, 1984
SUPERSEDING
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COMMERCIAL ITEM DESCRIPTION

LACQUER (CLEAR GLOSS)

The General Services Administration has authorized the use of this commercial item description in preference to Federal Specification TT-L-26.

This description covers a water-clear high-gloss lacquer for application by brush, cloth, or roller. The lacquer is intended for general interior and exterior primed metal or sealed wood.

Salient characteristics.

Condition in container. The wet lacquer shall be free from foreign other and readily dispersible by hand stirring to a homogeneous mixture. The volatile solvents shall meet air pollution regulations.

Brushing. The lacquer shall brush without pulling when a full coat is applied to a clean phosphated steel panel (300 by 300 mm) with a 38 mm lacquer brush. A smooth and uniform film shall be deposited.

Nonvolatile content shall be a minimum of 20 percent by weight of lacquer (ASTM D 1644).

Color. The lacquer shall not be darker than a Gardner Color Standard No. 3 (ASTM D 1544).

Drying time.[2] The lacquer, applied at a dry film thickness of 1.0 +/- 0.1 mil, shall dry-to-touch within 30 minutes, dry through within 2 hours, and have no after-tack after 7 days (ASTM D 1640).

Weathering.[1] The lacquer shall withstand weathering for 168 hours without yellowing, or any other film defects. More than 10 percent change from the original 60 deg. gloss value shall be rejected (ASTM G 23, Type D, method I-5.2).

Self-lifting.[2] Recoat the film with the same lacquer 6 hours after initial coating and examine over a period of 2 hours. There shall be no self-lifting or any other evidence of film irregularities.

Specular gloss.[2] The 60 deg. gloss shall not be less than 70 (ASTM D 523).

Flexibility.[2] The lacquer shall bend over a 1/2 inch mandrel at 0 deg. C. and 25 deg. C. without cracking or flaking (ASTM D 1737).

Adhesion.[2] When cut with a craftsman's knife (curved blade), the lacquer shall adhere tightly to the tin panel and show beveled edges at the cut.

Water and alcohol resistance.[2] The lacquer shall show no film defects 1 hour after removal from 18 hours of distilled water immersion and 1 hour after drops of ethyl alcohol have evaporated from its surface.

Sag resistance.[3] The lacquer shall have a minimum anti-sag index of 10.0.

The issue of ASTM test methods in effect on date of the solicitation shall be used to determine compliance with these requirements.

FSC 8010

Regulatory requirements. The offeror/contractor is encouraged to use recovered material in accordance with Public Law 94-580 to the maximum extent practical.

Preservation, packaging, packing, labeling, and marking. Preservation, packaging, packing, labeling and marking shall be as specified in the contract or order.

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

Notes: Procedures for the preparation of coatings relative to the above salient characteristics:

- [1] A coat of the lacquer shall be applied with a 25-mm lacquer brush to a 75 x 150 mm phosphated steel panel to a dry film thickness of 1.0 +/- 0.1 mil and allowed to dry for 48 hours at standard conditions.
- [2] The lacquer shall be applied on a solvent cleaned and buffed tin panel (Mfg. Std. Gage No. 31) with a draw-down blade to a dry film thickness of 1.0 +/- 0.0 mil and allowed to dry for 48 hours at standard conditions.
- [3] Use Method 4494 of Federal Test Method Standard No. 141.