[METRIC]
A-A-529A
February 1, 1996
SUPERSEDING
A-A-529
November 4, 1993

COMMERCIAL ITEM DESCRIPTION
Adhesive and Sealing Compound, Cellulose Nitrate Base (Solvent Type)

The General Services Administration has authorized the use of this Commercial Item Description by all Federal Agencies in lieu of Federal Specification MMM-A-105.

1.0 SCOPE. This Commercial Item Description covers a high viscosity, fast drying, one part adhesive intended for bonding a range of porous and nonporous materials such as ceramics, marble, glass, metal, leather, fabric and paper labels. This material may also be used for waterproofing. The product shall be a uniform solution or homogeneous dispersion of cellulose nitrate and plasticizers in low boiling solvent(s).

2.0 SALIENT CHARACTERISTICS.

2.1 Polymer type. The adhesive polymer shall consist of cellulose nitrate dissolved in an EPA exempt VOC solvent.

An infrared spectrogram of adhesive solids shall be compared to a known cellulose nitrate spectrogram from the Sadtler series (or similar) of standard spectra. All major absorbance wavelengths shall match or the product fails.

2.2 *Resin solids. The minimum cellulose nitrate resin solids shall be 25.0% on the oven dry weight basis when tested in accordance with ASTM D-1259 (Method A).

2.3 Volatile Organic Content (VOC). The maximum allowable VOC shall be 680 grams per liter when test in accordance with ASTM D 3960.

2.4 Viscosity. The adhesive viscosity shall be within the range of 65-90 poises at 20-23°C, when tested in accordance with ASTM D 2196 (Method A).

2.5 Color. The liquid adhesive color shall be clear with no visual color tint through a 10.0 cm (3.9 inch) visual path length.

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

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2.6 *Tack free time. A 2 5 millimeter (1.0 mil) wet adhesive film on plate glass shall be tack free, to touch, in less than 7 0 minutes at 20-23 °C and 50-60% relative humidity.

2.7 Safety warning. Containers of this adhesive shall exhibit suitable flammable liquid precautions for users and shippers

3.0 REGULATORY REQUIREMENTS.

3.1 Material Safety Data Sheets. Materials Safety Data Sheets (MSDS) shall be submitted in accordance with FED-STD-313C or later revision, if published

3.2 Recovered Materials and Restricted Materials. The Contractor shall utilize recovered materials to the maximum extent possible There shall be no lead, mercury or hexavalent chromium used in the formulation of the adhesive. Maximum background lead content shall be 0.06 (600 parts per million), oven dry weight basis determined in accordance with ASTM D 3335.

4.0 QUALITY ASSURANCE PROVISIONS.

4.1 Contractor Certification. The Contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this Commercial Item Description, and the product conforms to the producer's own drawings, specification(s), standards and quality assurance practices, and is the same product offered for sale in the commercial marketplace. 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 or purchase order.

4.2 ASTM. Use the latest method in effect on the date of the solicitation or order. ASTM standards and test methods are available from the American Society for Testing Materials, 100 Barr Harbor Drive, West Conshocken, PA 19428-2959

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

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