

[METRIC]
A-A-3006
March 11, 1998
SUPERSEDING
MMM-A-179B
August 18, 1982

COMMERCIAL ITEM DESCRIPTION

ADHESIVE, PAPER LABEL

The General Services Administration has authorized the use of this commercial item description as a replacement for Federal Specification MMM-A-179 for all Federal Agencies.

1. SCOPE This commercial item description covers two types of water resistant adhesives suitable for adhering paper labels to various substrates such as wood, fiberboard, metal and glass. It may also be used for general purpose repair of many types of materials. These adhesives are intended to be applied by brush.

2. CLASSIFICATION

Type I - Solvent based
Type II - Water emulsion

3. SALIENT CHARACTERISTICS

3.1 Application and transparency. The adhesive shall be of brushing consistency, and shall dry to a colorless, transparent film that will not reduce the legibility of printed label text.

3.2 Bonding permanence. The adhesive shall attach non-gummed paper labels to wood, fiberboard, steel, glass, or natural rubber and labels shall remain firmly attached after exposure to low temperature, oil and salt water, as demonstrated by the following test: Prepare nine test panels of the following substrates: wood, fiberboard, steel, glass and natural rubber. Clean test panels with a suitable solvent. Coat the panels with a thin film of the adhesive, press a non-gummed paper label into place on the panel, then brush a thin film of the adhesive over the entire label and panel. Air dry at 23°C and 50% relative humidity for 24 hours. Expose three panels of each substrate to the following conditions:

- a) Low temperatures (-30°C, 24 hours),
- b) 30W, motor oil (one light coat, 24 hours)
- c) 3 coats of 4% sodium chloride solution (dry completely between coats).

At the end of the test period, attempt to peel the label from the substrate from each of the four corners. The labels shall not be stripped from the test panels except in small chips no greater than 6 mm .in any dimension.

3.3 Tack free time. Type I adhesive shall be tack free in a maximum of 5 minutes and Type II adhesive shall be tack free in a maximum of 15 minutes when applied in a thin coat per manufacturer instructions for use, on a clean glass panel and dried at 23°C and 50% relative humidity and tested in accordance with ASTM D 1640, paper test method.

3.4 Water resistance. The adhesive shall be water resistant as demonstrated by the following test: One test panel of each substrate prepared as described in 3.2 shall be immersed in distilled water for

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18 hours, followed by 2 hours of room temperature drying. There shall be no whitening, dulling or other visible defect and the label shall not peel off from substrate except in small chips.

3.5 Flexibility. The adhesive shall demonstrate flexibility by bending over a 6.4 mm (1/4") mandrel in accordance with ASTM D 4338, using a steel panel coated with a film of adhesive at the thickness recommended in manufacturer instructions for use. The coating shall adhere tightly without cracking or flaking.

3.6 Storage life. A container of the adhesive, after storage for 12 months from date of manufacture at 23°C and 50% relative humidity, shall have no gelling, stringing, or other nonuniformity, and show no signs of fungus growth.

3.7 Prohibited material. The product shall not contain (other than trace impurity amounts, not to exceed .06% liquid wt) any of the following: hydrolyzable chlorine derivatives, ethylene based glycol ethers and their acetates, any carcinogen, as defined in 29 CFR 1910.1200, any of the following chemicals on the EPA 33/50 program in the following list, [benzene, cadmium & compounds, carbon tetrachloride, chloroform, chromium & compounds, cyanides, lead & compounds, mercury & compounds, methyl isobutyl ketone, methylene chloride, nickel & compounds, tetrachloroethylene, trichloroethane, trichloroethylene, and xylenes.], nor any ozone depleting compound [as listed in the Federal Register notice of July 30, 1992 (57 Fed Reg. 33753), which include chlorofluorocarbons, halons, carbon tetrachloride, methyl chloroform, and hydrochlorofluorocarbons]. In addition, Type II shall not contain toluene or Methyl ethyl ketone.

4. QUALITY ASSURANCE PROVISIONS.

4.1 Commercial Quality. 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 first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

5. PACKAGING.

The packaging and packing shall be as specified in the contract or order.

6. NOTES

6.1 Intended use. This adhesive is intended for adhering printed paper labels to wood, fiberboard, steel or rubber. Type I contains organic solvents that may be objectionable due to flammability and health hazards and may not comply with local Volatile Organic Content regulations. This specification supersedes MMM-A-179B dated August 18, 1982.

6.2 Referenced documents.

Federal Regulations.

29 CFR Part 1910.1200

The code of Federal Regulations (CFR) is for sale mail order by the Superintendent of Documents, ATTN: New Order, PO Box 371954, Pittsburgh, PA 15250-7954.

ASTM Methods:

ASTM D 1640 - Drying, Curing, or Film Formation of Organic Coatings at Room Temperature.

ASTM D 4338 - Flexibility Determination of Supported Adhesive Films by Mandrel Bend Method

ASTM standards are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. The issue of the ASTM test methods in effect on the date of the solicitation shall be used to determine compliance with these requirements.

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NAVY - AS

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GSA - FSS

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CIVIL AGENCY INTEREST

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