

METRIC

A-A-50535A

October 3, 2014

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SUPERSEDING

A-A-50535

September 26, 1991

## COMMERCIAL ITEM DESCRIPTION

## ADHESIVE, STARCH

The General Services Administration has authorized the use of this commercial item description, for all federal agencies.

1. **SCOPE.** This commercial item description covers two types of starch base adhesive for mounting paper targets.
2. **CLASSIFICATION.** Starch adhesive covered by this commercial item description shall be one of the following types:

Type I – wheat starch based adhesive

Type II – potato starch based adhesive

3. **SALIENT CHARACTERISTICS.**

- 3.1 **Material base.** The base material of the adhesive shall be made of pure fine powdered material.
- 3.2 **Adhesive purpose.** The adhesive shall be suitable for bonding pistol and rifle (lightweight) paper targets.
- 3.3 **Adhesive preservatives.** The adhesive shall have sufficient preservatives to prevent decomposition, weevil and mold growth in the package, musty and other undesirable odors and prevent fermentation after mixing with water.
- 3.4 **Adhesive mixing.** The adhesive powder shall mix readily with water to form a smooth and uniform ready-to-use paste ready for use within 3 minutes.
- 3.5 **Adhesive powder consistency.** The adhesive powder shall be free from lumps, agglomerates and debris.
- 3.6 **Adhesive powder particle fineness (Type II only).** The adhesive powder shall have the following particle size distribution when subjected to sieve analysis:
  - a. Material retention  $\leq 1$  mg/g of material retention at 5 millimeters
  - b. Material retention  $\leq 60$  mg/g of material retention at 100 micrometers
- 3.7 **Adhesive consistency.** The adhesive shall have full body consistency to minimize sagging and dripping during application combined with excellent slide.
- 3.8 **Adhesive viscosity (Type II only).** The adhesive powder shall have a Brookfield viscosity  $\geq 7500$  mPa·s when tested in accordance with the following parameters:
  - a. The adhesive shall be mixed with 32 parts of water per 1 part adhesive powder.
  - b. The Brookfield viscosity shall be measured with Brookfield RVF model (or equivalent) with number 5 spindle, at 20 rounds per minute, 25 °C, and with the reading taken after 1 minute.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: Commander, Marine Corps Systems Command, Systems Engineering, Integration, Architectures and Information Technologies (SIAT), SG06, 2200 Lester St., Quantico, VA 22134-6050 or emailed to [USMC\\_STDZ@usmc.mil](mailto:USMC_STDZ@usmc.mil), with the subject line "Document Comment". Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.dla.mil>.

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3.9 Adhesive hydrogen ion (pH) level.

- a. Type I – The adhesive shall have a pH value between 3.6 and 7.0.
- b. Type II – The adhesive shall have a pH value between 10.0 and 11.5.

3.10 Adhesive finish. After application, the adhesive shall have a translucent finish.3.11 Adhesive brushability. The adhesive shall have excellent brushability when applied at the temperature range of 10 to 37.8 °C.3.12 Hazardous substances. The adhesive shall be free from added toxic or hazardous substances such as asbestos, lead, or mercury.3.13 Workmanship. The adhesive shall be a clean, uniform product free from foreign matter.

4. REGULATORY REQUIREMENTS. In accordance with 23.403 of the Federal Acquisition Regulation (FAR), recycled, recovered, environmentally preferable, or biobased materials should be used to the maximum extent possible, provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

## 5. PRODUCT CONFORMANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this Commercial Item Description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The government reserves the right to require proof of such conformance.

5.2 Market acceptability. The item offered must have been sold to the government or commercial market.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

## 7. NOTES.

7.1 Part or identification number (PIN). The following part or identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.

<u>AA50535</u>	-	<u>X</u>
CID number	-	Type code

PIN code:

Type	Code
I	1
II	2

Examples: AA50535-1  
AA50535-2

7.2 Ordering data. The contract or order should specify the following:

- a. CID document number, revision, and CID PIN.
- b. Product conformance provisions.
- c. Quantity required.

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7.3 National stock numbers (NSNs). The following is a list of NSNs assigned that correspond to this CID. The list may not be indicative of all possible NSNs associated with the CID.

<b>NSN</b>	<b>Type</b>	<b>Size</b>
8040-00-275-8105	I	1 lb
8040-01-632-0174	II	1 lb

7.4 Key words.

Glue

Potato

Target glue

Wheat

CIVIL AGENCY COORDINATING ACTIVITY:  
GSA – FAS

Preparing Activity:  
Navy – MC  
(Project 8040-2014-006)

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