

[METRIC]
A-A-3130
April 21, 1998

COMMERCIAL ITEM DESCRIPTION

PAINT (FOR APPLICATION TO WET SURFACES)

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

1. **SCOPE.** This commercial item description covers a liquid paint for application to an abrasive-blasted, steel surface, that is wet with condensation or flowing water, at the time of application. The paint is designed for long-term corrosion protection of the steel in the condensing or immersion environment.

2. **CLASSIFICATION.** This commercial item description describes one type of paint for application to wet surfaces.

3. SALIENT CHARACTERISTICS.

3.1 General requirements.

3.1.1 **Condition in container.** The paint, as received, shall be ready-to-use and shall show no evidence of biological growth, livering, skinning, putrefaction, corrosion of the container, or hard settling of the pigment. Any settled pigment shall be dispersible by heavy-duty mechanical mixer to a smooth uniform condition (FED-STD-141, Method 3011).

3.1.2 **Application properties.** The spray application shall result in a coating of uniform thickness. Pinholes and holidays shall be minimal and shall not extend to the substrate. The roller-applied coating shall be easily applied without need for excessive backrolling to produce adhesion to the substrate or previous coat. The coating shall not disperse into the water or produce excessive floating. After cure the applied coating shall be free of runs, sags, voids or other defects.

3.1.3 **Cure.** After the final coat has cured 24 hours, the coating shall have a minimum completeness of cure rating of 3 when tested according to ASTM D 4752.

3.2 **Performance.** Panels shall be prepared in accordance with 3.2.1. After the 28-day immersion in room temperature tap water, all panels shall be removed and evaluated for evidence of poor performance. The coating shall have a blister rating of 10 when tested according to ASTM D 714. The coating shall have a rust rating of 10 when evaluated according to ASTM D 610. The evaluation shall exclude rust associated with edges and the score on each panel. The coating shall have an adhesion rating of 4A or greater when evaluated according to ASTM D 3359, Method A. The coating shall be probed with a sharp knife along the score. Evidence of decreased adhesion to the substrate or poor intercoat adhesion extending farther than 2 mm from the scribe shall be considered failure of the coating.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: General Services Administration, Paints and Chemicals Center, Engineering and Supply Management Division (10FTE), 400 15th St. SW, Auburn, WA. 98001-6599.

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3.2.1 Test Panel Preparation. Paint for testing shall be applied to steel test panels that are grit-blasted to meet the SSPC SP 5 surface preparation grade and have an anchor profile of 40 to 60 microns as tested by ASTM D 4417, Method C. Duplicate panels shall be laid in a pan of water that covers the panels to a minimum depth of 2.5 cm. In this position the panels shall be coated using a paint roller. Another duplicate set of panels shall be removed from water immersion, placed in a horizontal position, squeegeed, and coated while still wet using airless spray. Manufacturer's published guidance on mixing, thinning, induction time, and recoat time shall be followed. Application shall be evaluated as required below. Immediately after application, all panels shall be immersed vertically in distilled water maintained at 15 degrees C and allowed to cure. Coating thickness shall be a minimum of 300 microns (11.8 mils). If additional coats are necessary to meet this requirement, they shall be applied in the shortest recoat time recommended by the manufacturer and in the same manner as the initial coat. After the final coat has cured 24 hours, each panel shall be tested for completeness of cure, scribed with a 7-cm diagonal line to the substrate, and immersed for 28 days.

3.3 Color. The color shall be a visual match to the color specified in the contract or purchase order.

3.4 MSDS. The manufacturer shall comply with requirements set forth by the Hazardous Communication Standard 29 CFR 1910.1200 (d) through (g). All Material Safety Data Sheets (MSDSs) submitted shall comply with provisions of FED-STD-313.

4. REGULATORY REQUIREMENTS.

4.1 Federal Acquisition Regulations (FAR). The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the FAR.

5. QUALITY ASSURANCE PROVISIONS.

5.1 Contractor quality assurance. The contractor shall maintain substantiating evidence that the product offered meets the salient characteristics of this Commercial Item Description and that the product conforms to the producer's own drawing, specifications, standards, and quality assurance practices, and is the same product offered for sale in the commercial marketplace.

The contractor shall provide the required information in a tabulated format and with enough clarity so that the formulation of the tested product can be traced compared to the offered product(s). The contractor shall also provide a summary of performance data, consisting of test reports, substantiating that the product to be supplied under this CID meets the salient characteristics cited under 3 through 3.2 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 first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

5.2 Market Acceptability. The following market acceptability criteria are necessary to document the quality of the product to be provided under this CID:

- a. The company producing the item must have been producing a product meeting the requirements of this CID for at least 2 years.
- b. The company must have sold a minimum 500 gallons meeting this CID in the commercial marketplace over the past 2 years.

6. PACKAGING.

Preservation, Packing, and marking shall be as specified in the contract or order.

7. NOTES.

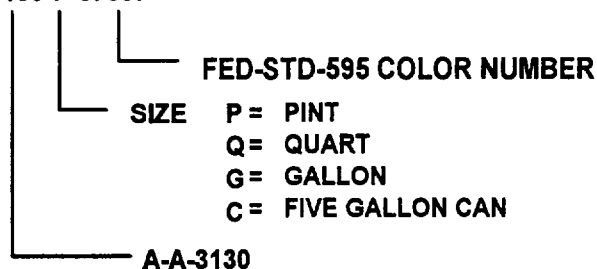
7.1 Intended Use. The paint is intended to be applied over abrasive-blasted, wet, steel surfaces. It is also intended for protection of steel surfaces in condensing or water immersion service.

7.2 Ordering Data. Purchasers should include the following information in the contract or purchase order.

- (a) Title, number, and date of this commercial item description.
- (b) Color required.
- (c) Quantity and size of the container required.
- (d) Address to whom MSDSs should be sent.
- (e) Packaging, packing, and marking required.

7.3 Part Identification Number (PIN). The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.

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7.4 Referenced documents.

Federal Standards.

- FED-STD-141 - Paint, Varnish, Lacquer and Related Materials: Methods of Inspection, Sampling and Testing.
- FED-STD-313 - Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities.

ASTM Standards:

- D 610 - Method for Evaluating Degree of Rusting on Painted Steel Surfaces.
- D 714 - Method for Evaluating Degree of Blistering of Paints.
- D 3359 - Test Methods for Measuring Adhesion by Tape Test.
- D 4417 - Test Method for Field Measurement of Surface Profile of Blast Cleaned Steel.
- D 4752 - Test Method for Measuring MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub.

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Steel Structures Painting Council

SSPC SP 5 - White Metal Black Cleaning.

7.5 Source of Documents.

7.5.1 Contact the contracting officer for a copy of paragraph 23.403 of the FAR, and the appropriate paragraphs in 29 and 40 CFR.

7.5.2 Copies of ASTM specifications and standards may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.5.3 The Steel Structures Painting Council (SSPC) specifications for surface preparation are available from SSPC, 4516 Henry St., Pittsburgh, PA 15213-3728

7.6 Products known to meet these requirements.

- a. Intern 954HS Porter International
1301 W. Kentucky St.
Louisville, KY 40210

- b. Alocit Aquacoat 28.15 The Warfield Company, INC.
1005 Sussex Boulevard
Broomall, PA 19008

- c. Permax 9043 The Permite Corporation
5239 Brer Rabbit Road
Stone Mountain, GA 20083

MILITARY INTERESTS:

Custodian
Army - CE

Review Activities
Army - CE

User Activities
Army - CE

**CIVIL AGENCY
COORDINATING ACTIVITY:**

Preparing Activity:

GSA-FSS