

COMMERCIAL ITEM DESCRIPTION

PAINT, LATEX (CONTAINING POST-CONSUMER MATERIAL)

The General Services Administration has authorized the use of this commercial item description for all Federal Agencies.

1. **SCOPE.** This commercial item description covers latex emulsion paint containing a minimum of 20 percent post-consumer materials.
2. **CLASSIFICATION.** The latex paint shall be of three types, three classes and three grades as specified (See 7.2).

Types

I – Interior

II – Exterior

III – Interior/Exterior

Classes

1 – Flat (Low sheen)

2 – Eggshell

3 – SemiGloss

Grades

A – 40% minimum volume solids

B – 30% minimum volume solids

C – Utility (For graffiti abatement)

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: General Services Administration, Hardware and Appliance Center, Engineering and Commodity Management Div., 1500 E. Bannister Rd., Kansas City, MO 64131.

3. SALIENT CHARACTERISTICS

3.1 **General Requirements.** Types II and III exterior paint shall be 100 percent acrylic latex paint. Grade C utility paint (for graffiti abatement) shall prevent bleed through.

3.2. **Materials.** The paint shall contain post-consumer materials as defined in the 40th Code of Federal Regulations Part 247 (40 CFR 247) and 48 CFR 23.402 in the quantities specified in Table 1. Such post-consumer materials will be obtained from materials or finished products that have served their intended end use and have been diverted or recovered from waste destined for disposal. The manufacturer shall certify that the paint meets this requirement.

3.2.1. **Prohibited materials.** When tested as specified in Table 1, the paint shall be free from toxic materials under normal conditions of use and shall not contain lead in excess of 0.06 percent by weight of nonvolatile, hexavalent chromates, benzene, halogenated solvents, or mercury in excess of 10 parts per million for Types I and III or 50 parts per million for Type II.

3.3. **Condition in container.** When examined as specified in Table 1, the paint shall show no evidence of skins, small bubbles and grit, putrefaction, hard settled pigment, or corrosion of the container. The paint shall be dispersible to a uniform condition by not more than 5 minutes hand stirring without decanting and remixing.

3.4. **Color.** When tested as specified in Table 1 at complete hiding, the Grade A and B paint shall match the color specified within a color tolerance, ΔE , of ± 2.5 . The color of the Grade C paint shall be as agreed upon by buyer and seller.

3.5. **Accelerated Storage.** After storage at 52 degrees Celsius (125 degrees Fahrenheit) for 30 days as specified in Table 1, a sealed, filled one-liter (one-quart) can of paint shall show no coagulation or hard settled pigment. The paint shall be dispersible to a uniform condition and shall pass the application properties tests specified in 3.7.

3.6. **Freeze-thaw stability.** When tested as specified in Table 1 for 3 freeze-thaw cycles, the paint shall show no coagulation or flocculation, the consistency shall not change more than 8 KU, and the paint shall pass the brushing properties test in 3.7.

3.7. **Application properties.** When tested as specified in Table 1, the paint shall brush, roll, and spray easily, and shall dry to a smooth uniform film free from lap marks, excessive brush marks, orange peel, craters or dusting.

3.8. **Odor.** When tested as specified in Table 1, the odor of the paint in the can and during application shall not be irritating. Upon opening the container, there should not be a putrid, musty and/or fermenting odor. There should not be a strong odor of solvent. The paint shall have no residual odor after 48 hours air drying.

3.9. **Dry through.** When tested as specified in ASTM D1640, paint shall dry as described in Table I.

3.10. **Consistency.** When tested as specified in ASTM D562, paint shall have consistency/viscosity in accordance with Table I.

3.11. **Volatile organic compound (VOC) content.** When tested in accordance with ASTM D3960, the paint VOC shall meet the limits specified in Table I.

3.12. **Contrast ratio.** When tested as specified in ASTM D 2805 The paint shall be applied to a black and white Leneta chart using a doctor's blade or a bird bar applicator with a 5-mil clearance; for gloss paints and 3 mil clearance for semi-gloss, eggshell, and flat paints. The reflectance over the white and black areas of the Leneta chart are measured in accordance with Table I. The ratio of the reflectance value for the black area to that of the white area is the contrast ratio.

3.13. **Alkali resistance.** When tested as specified in Table 1, the paint shall show no blistering or re-emulsification immediately after test. After 24 hours recovery, the film shall show no change in hue or hardness when compared with the untested portion of the paint film.

3.14. **Flexibility.** When tested as specified in Table 1, the paint film does not crack or flake.

3.15. **Scrub resistance.** When tested as specified in Table 1, the film shall not be worn through to the panel in fewer than 300 cycles for gloss or semi-gloss, or 150 cycles for flat.

3.16. **Biological growth.** When tested as specified in Table 1, the paint shall attain a surface disfigurement rating of 8 or greater when evaluated against Adjunct No. 12-432740-00 specified in ASTM D3274. A certificate of compliance may be accepted from the supplier that a biocide has been used in concentrations which has been tested in similar formulations and has passed this requirement.

3.17. **Total solids.** When tested as specified in table I Grade A and B paint shall have the total solids content, as determined by a percent volume of paint and ASTM D2697.

3.18. **Fineness of dispersion.** When tested as specified in Table 1 Grade A and B shall have a Fineness of grind in accordance with the Hegman scale in ASTM D1210

3.19. **Gloss.** Draw down the paint using a film applicator which will produce a wet film thickness of $75 \pm 2 \mu\text{m}$ (0.003 ± 0.0001 inch) on a plane glass panel. Determine 85° or 60° specular gloss in accordance with ASTM D 523 after 48 hours drying in a dust-free environment.

3.20. **Adhesion.** When tested as specified in Table 1 (Fed-Std-141, Method 6301.2), paint shall have no peeling or removal.

3.21. **Special Marking.** Each container shall be marked with the percentage of post-consumer recycled waste. Each container and shipping container shall be marked: "DO NOT FREEZE".

3.22. **Material Safety Data Sheet.** A Material Safety Data Sheet shall be prepared in accordance with FED-STD-313.

3.23. **Quantitative Requirements.** The paint shall meet the requirements specified in Table 1 for the type, class and grade specified.

TABLE 1
QUANTITATIVE REQUIREMENTS

Property	Numeric Limit	Requirement Paragraph	Test Method ¹
Requirements for all Grades			
Materials			
Post-consumer material percent		3.2	
Grades A and B, white/off-white/pastel colors	20% min		
Grades A and B, grey/brown/earthtones/dark	50% min		
All Grade C	100%		
Prohibited materials		3.2.1	D3630
Condition in container		3.3	3011
Color		3.4	D2244
Accelerated storage		3.5	D1849
Freeze-thaw stability		3.6	D2243
Application properties		3.7	2112, 2131.1, 2141.1
Odor		3.8	D1296
Dry through, hours		3.9	D1640
Classes 1 and 2	2 max		
Class 3	8 max		
Consistency, KU	80-100	3.10	D562
Volatile organic compound content (less water and exempt solvents) g/l (lb/gal)	200 max (1.67)	3.11	D3960
Contrast ratio at 9.8 m ² /L, R ₈₀	0.98 min	3.12	D2805
Requirements for grades A and B			
Alkali resistance		3.13	D1308
Flexibility, inch	0.25	3.14	6221
Scrub resistance		3.15	D2486
Grade A	300 min		

Property	Numeric Limit	Requirement Paragraph	Test Method ¹
Scrub resistance, continued		3.15	D2486
Grade B	150 min		
Biological growth	8 min	3.16	D3273, D3274
Total solids, % volume of paint		3.17	D2697
Grade A	40 min		
Grade B	30 min		
Fineness of dispersion		3.18	D1210
Class 1	3 min		
Classes 2 and 3	4 min		
Gloss		3.19	D523
85 degree gloss, Class 1	10 max		
60 degree gloss, Class 2	15-25		
60 degree gloss, Class 3	40-60		
Adhesion		3.20	6301.2

¹ Test methods prefixed with a letter are ASTM methods. Others are FED-STD-141 test methods.

4. REGULATORY REQUIREMENTS

4.2. Code of Federal Regulations. The paint shall not contain any substance listed in the following Code of Federal Regulations as a hazardous air pollutant or ozone depleting substance.

- a) 40 CFR part 61
- b) 40 CFR part 401
- c) 40 CFR part 82

5. QUALITY ASSURANCE PROVISIONS

5.1. 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 government reserves the right to require proof of such conformance.

5.2. Information Upon Request. 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 requirements cited under 3.1 through 3.3, 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.

6. PACKAGING

6.1. **Packaging, packing, and marking.** The paint shall be furnished in quantities specified and the packaging, packing, and marking shall be as specified (see 7.2).

7. NOTES

7.1. **Intended use.** This emulsion paint is intended for use on interior or exterior wallboard, concrete, stucco, masonry, and wood. Chalk and loose paint should be removed before painting. New wood should be primed with a suitable primer. Application temperatures should be above 10 degrees Celsius (50 degrees Fahrenheit) to insure proper drying and film formation.

7.2. **Ordering data.** Purchasers should include the following information in procurement documents:

- a) Title, number, and date of this Commercial Item Description
- b) Type, Class, Grade and color required (see 7.1)
- c) Packaging, packing, and marking required.
- d) Size of container and quantity required.

7.3. **Bid evaluation.** When specified by the contracting officer, competing offers will be evaluated using the following formula with the lowest evaluated offer being considered as low bid:

Evaluated offer = offer price/AxB where:

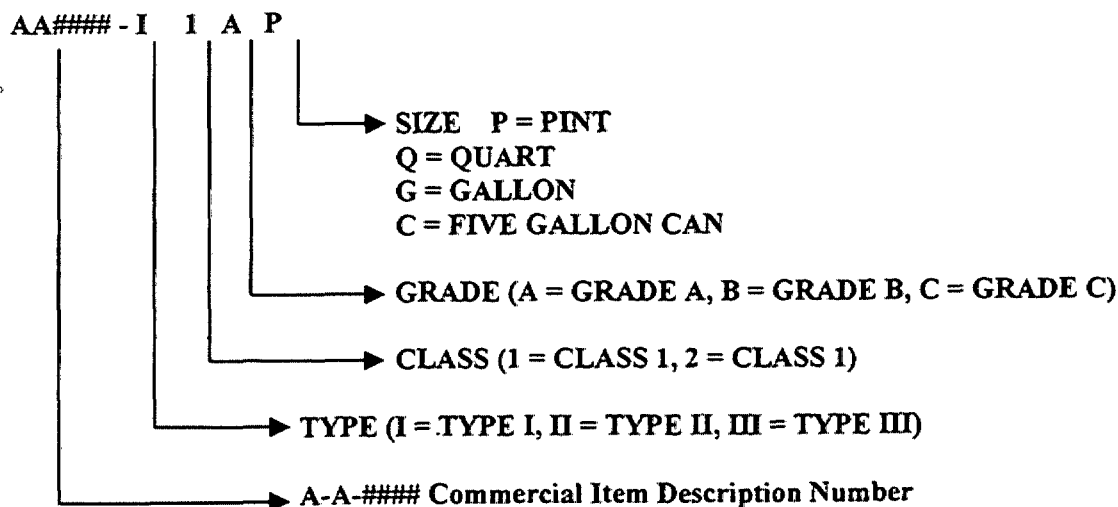
A = volume solids percentage divided by 100

B = post consumer waste percentage divided by 10

Example: offer price \$10.00 per gallon, 50% volume solids, 50% post-consumer waste.

Evaluated offer = \$10.00/(50/100)x(50/10) = \$4.00 per gallon.

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



7.5. Referenced Documents. The following documents of the issues on date of invitation for bids or request for proposal form part of this Commercial Item Description to the extent specified herein.

Federal Standards:

FED-STD-141 –Paint, Varnish, Lacquer, and Related Materials; Methods of inspection, Sampling, and Testing

FED-STD-313 –Preparation and Submission of Material Safety Data Sheets (MSDS)

Code of Federal Regulations:

40 CFR Part 247 – Guidelines for Procurement of Products That Contain Recycled Material

48 CFR Part 23.402 – Federal Acquisition Regulation – Environment, Conservation, Occupational Safety, and Drug-Free Workplace - Definitions

American Society for Testing and Materials (ASTM) Standards:

D523 - Specular gloss

D562 - Consistency of Paints Using the Stormer Viscometer

D1210 - Fineness of Dispersion of Pigment-Vehicle Systems

D1296 - Odor of Volatile Solvents and Diluents

D1308 - Effect of Household Chemicals on Clear and Pigmented Organic Finishes

D1640 - Drying, Curing, or Film Formation of Organic Coatings at Room Temperature Materials

D1849 - Package Stability of Paint

D2243 - Freeze-Thaw Resistance of Water-Borne Coatings

D2244 - Calculation of Color Differences From Instrumentally Measured Color Coordinates

D2486 - Scrub Resistance of Wall Paints

D2697 - Volume Nonvolatile Matter In Clear or Pigmented Coatings

D3273 - Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber

D3274 - Evaluating Degree of Surface Disfigurement of Paint Films by Fungal Growth or Soil and Di... Accumulation and Adjunct No. 12-43270-00 Pictorial Standards of Coatings Defects

D3630 - Constituents Classified as Hazardous in Protective Coatings

D3960 - Volatile Organic Content (VOC) of Paints and Related Coatings

7.6. Source of Documents.

7.6.1. Federal Regulation. Contact the contracting officer for a copy of paragraph 23.4.3 of the FAR, and the appropriate paragraphs in 40 CFR.

7.6.2. American Society for Testing and Materials. 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

7.6.3. Federal Specifications. Copies of Federal Specifications and standards may be obtained from the Federal Supply Service Bureau, Specification Section, Suite 8100, 470 East L'Enfant Plaza, SW, Washington, DC 20407.

7.6.4. National Stock Numbers (NSNs). The following is a list of NSNs assigned that corresponds to this CID. The list may not be indicative of all possible NSNs associated with the CID.

T=Type; C=Class; G=Grade

	T	C	G		T	C	G		T	C	G
8010-01-380-2331	3	3	B	8010-01-380-2417	3	3	B	8010-01-433-4814	3	3	B
8010-01-380-2332	3	3	B	8010-01-380-2421	3	1	B	8010-01-433-4815	3	3	B
8010-01-380-2338	3	3	B	8010-01-380-2425	3	1	B	8010-01-433-4816	3	3	B
8010-01-380-2351	3	1	B	8010-01-380-2429	3	3	B	8010-01-433-4817	3	3	B
8010-01-380-2353	3	3	B	8010-01-380-2438	3	3	B	8010-01-433-4818	3	3	B
8010-01-380-2363	3	3	B	8010-01-380-2442	3	1	B	8010-01-433-4819	3	1	B
8010-01-380-2366	3	1	B	8010-01-380-2447	3	3	B	8010-01-433-4820	3	1	B
8010-01-380-2367	3	1	B	8010-01-380-3293	3	1	B	8010-01-433-4823	3	3	B
8010-01-380-2379	3	3	B	8010-01-433-0907	3	1	B	8010-01-433-4825	3	3	B
8010-01-380-2381	3	1	B	8010-01-433-1786	3	1	B	8010-01-433-4826	3	3	B
8010-01-380-2382	3	1	B	8010-01-433-4808	3	3	B	8010-01-433-4827	3	1	B
8010-01-380-2396	3	1	B	8010-01-433-4809	3	3	B	8010-01-433-4828	3	3	B
8010-01-380-2400	3	3	B	8010-01-433-4810	3	3	B	8010-01-434-3222	3	3	B
8010-01-380-2405	3	3	B	8010-01-433-4811	3	1	B	8010-01-434-3224	3	1	B
8010-01-380-2416	3	1	B	8010-01-433-4812	3	3	B	8010-01-434-3225	3	3	B
				8010-01-433-4813	3	1	B				

**Preparing Activity:
GSA-FSS**

FSC 8010