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COMMERCIAL ITEM DESCRIPTION

PRIMER COATING
(OIL-ALKYD, EXTERIOR WOOD, WHITE AND TINTS)

The General Services Administration has authorized the use of this commercial item description.

Salient characteristics:

The primer coating shall consist of pigment, long-oil alkyd vehicle, and non-photochemically reactive solvent as defined in Rule 102 of South Coast Air Quality Management District 1/; and shall be reducible with mineral spirits.

Condition in container. The primer coating shall be free from skins, livering, seeds, and hard settled pigment; and shall be readily dispersible to a uniform condition by 5 minutes hand stirring (ASTM D 2932, par 6.2).

Storage stability. A sealed, filled container stored 4 weeks at 52°C (125°F) shall show no skinning, gelling, or hard settling; and after 5 minutes hand stirring shall be within the limits specified herein for consistency, fineness of grind, and drying time (ASTM D 1849).

Skinning. A sealed, three-quarter filled container shall not skin within 48 hours at room temperature.

Application properties. The primer coating shall brush, roll, and spray easily and shall dry to a smooth, uniform film free from dusting, mottling, sagging, lap marks, color separation, orange peel or excessive brush marks (ASTM D 2932, par 7).

Color. Tinted primer coating shall be a general match to the color specified (ASTM D 1729).

Flexibility. The primer coating shall not crack or flake when bent over a 3.18 mm (1/8 inch) diameter mandrel (ASTM D 1737).2/

Water resistance. Immediately after 24 hours immersion in distilled water at 23°C (73°F) the primer coating shall show no wrinkling, blistering or loss of adhesion and shall be equal in hardness to the unimmersed portion after 2 hours recovery (ASTM D 1308, par 6.4).2/

Quantitative requirements	Limits	ASTM Test Method
Pigment, percent mass of primer coating	51 min	D 2698
Nonvolatile vehicle, percent mass of vehicle	49 min	D 2698
Phthalic anhydride, percent mass of nonvolatile vehicle	12 - 16	D 563
Directional reflectance (white only)	80 min	E 97
60° specular gloss [76 + 2 um (0.003 ± 0.0001 inch) wet film air dried 48 hours]	20 max	D 523
Dry set-to-touch, hours	1/2 - 4	D 1640
Dry hard, hours	18 max	D 1640
Consistency, KU	75 - 90	D 562
Fineness of grind	4 min	D 1210
Water, percent mass of primer coating	1.0 max	D 95
Coarse particles, percent mass of pigment	1.0 max	D 185
Contrast ratio [at 37 + 2 um (0.0015 ± 0.0001 inch) dry film]		
White	0.97 min	D 2805
Tints	0.98 min	D 2805
Fungus resistance	8 min	D 3273, D 3274
Lead, percent mass of nonvolatile	0.06 max	D 3335

The issues of the ASTM standards in effect on the date of the solicitation shall be used to determine compliance with these requirements.

Quality assurance provisions. The offeror/contractor is responsible for the performance of all inspections specified herein using facilities acceptable to the Government. The Government reserves the right to perform any specified inspection when deemed necessary to assure that the primer coating conforms to this description. Failure to meet any requirement shall be cause for rejection of the lot from which the sample was taken.

Regulatory requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

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Preservation, packaging, packing, labeling, and marking. Preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order.

NOTES: ASTM standards are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

1/ Information may be obtained from the South Coast Air Quality Management District, 9150 Flair Drive, El Monte, CA 91731.

2/ Draw down the primer coating on tinplate panels with a film applicator to dry film thicknesses of 37 + 2 um (0.0015 ± 0.0001 inch). Air dry 72 hours prior to water immersion. Air dry 24 hours and bake 2 hours at 105°C prior to flexibility test.

THE COMMERCIAL ITEM CERTIFICATION CLAUSE IS NOT REQUIRED WHEN THIS COMMERCIAL ITEM DESCRIPTION IS USED FOR PROCUREMENT.

CIVIL AGENCY INTEREST

COM - NBS
VA - OSS

PREPARING ACTIVITY

GSA - FSS