

SSPC-PAINT 2

ADOPTION NOTICE

SSPC-PAINT 2, "Red Lead, Iron Oxide, Raw Linseed Oil And Alkyd Primer," was adopted on April 11, 1995 for use by the Department of Defense (DoD). Proposed changes by DoD activities must be submitted to the DoD Adopting Activity: Naval Construction Battalion Center, 1000 23rd Avenue, Code 156, Port Hueneme, CA 93043-4301. DoD activities may obtain copies of this standard from the Defense Printing Service Detachment Office, Bldg. 4D (Customer Service), 700 Robbins Avenue, Philadelphia, PA 19111-5094. The private sector and other Government agencies may purchase copies from Steel Structures Painting Council, 4516 Henry Street, Suite 301, Pittsburgh, PA 15213-3728.

Custodians:
Navy - YD1

Adopting Activity:
Navy - YD1
(Project 8010-N997)

FSC 8010

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

Steel Structures Painting Council

PAINT SPECIFICATION NO. 2

Red Lead, Iron Oxide, Raw Linseed Oil and Alkyd Primer*

1. Scope

1.1 This specification covers a slow drying red lead, iron oxide, raw linseed oil and alkyd primer for steel. It has excellent rust inhibitive characteristics, good wetting ability, a drying time of about 24 hours, and good resistance to weathering for normal periods before field coating.

1.2 This primer is suitable for exposures in Environmental Zones 1A (interior, normally dry) and 1B (exterior, normally dry), and is intended for brush or spray application over steel surfaces prepared in accordance with SSPC-SP 2, "Hand Tool Cleaning." The performance will be improved by a better degree of surface preparation. It is suitable as a shop primer, field primer, maintenance primer, or intermediate coat and is to be applied in accordance with SSPC-PA 1, "Shop, Field, and Maintenance Painting." If the primed part of the structure is to be exposed to the weather, it should be topcoated as soon as practical.

2. Description

2.1 The good wetting ability of this primer is the result of its high proportion of raw linseed oil. Details of the composition are given in Table 1.

2.2 This primer contains approximately 82% by volume of nonvolatile film-forming solids (pigment and binder). The theoretical spreading rate for a 2.0 mil (50 microns) dry film thickness is 660 square feet/U.S. gallon (16.1 square meters/liter). Actual spreading rates can be significantly lower.

3. REFERENCE STANDARDS

3.1 The standards referenced in this specification are listed in Sections 3.4, 3.5, 3.6, and 3.7 and form a part of this specification.

3.2 The latest issue, revision, or amendment of the referenced standards in effect on the date of invitation to bid shall govern unless otherwise specified.

3.3 If there is a conflict between the requirements of any of the cited reference standards and this specification, the requirements of this specification shall prevail.

3.4 STEEL STRUCTURES PAINTING COUNCIL (SSPC) SPECIFICATIONS:

- PA 1 Shop, Field, and Maintenance Painting
- PA Guide 3 A Guide to Safety in Paint Application

SP 2 Hand Tool Cleaning

3.5 AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) STANDARDS:

3.5.1 Specification for Ingredients:

- D 83* Red Lead
- D 234 Raw Linseed Oil
- D 235 Petroleum Spirits (Mineral Spirits)
- D 600 Liquid Paint Driers
- D 3722 Natural Red and Brown Iron Oxides

3.5.2 Test Methods for Properties:

- D 185 Coarse Particles in Pigments, Pastes and Paints
- D 562 Consistency of Paints Using the Stormer Viscometer
- D 1208 Common Properties of Certain Pigments
- D 1210 Fineness of Dispersion of Pigment-Vehicle Systems
- D 1296 Odors of Volatile Solvents and Diluents
- D 1475 Density of Paint, Varnish, Lacquer and Related Products
- D 1542 Quantitative Test for Rosin in Varnishes
- D 2369 Volatile Content of Paints
- D 2371 Pigment Content of Solvent-Type Paints
- D 2801** Leveling Characteristics of Paints by Draw-Down Method
- D 3278 Flash Point of Liquids by Setaflash Closed Tester

3.6 FEDERAL STANDARDS:

3.6.1 Standard Specifications for Ingredients:

- MIL-A-15206 Aluminum Stearate, Technical
- TT-L-215*** Linseed Oil, Raw (for Use in Organic Coatings)
- TT-R-266 Resin, Alkyd: Solutions
- TT-T-291 Thinner, Paint, Mineral Spirits, Regular and Odorless

3.6.2 Federal Test Method Standard No. 141

- Method 3011 Condition in Container
- Method 3021 Skinning (Partially Filled Container)
- Method 4021 Pigment Content (Centrifuge)
- Method 4053 Nonvolatile Vehicle Content
- Method 4061 Drying Time