





ENGINEERING STAFF  
**MATERIAL SPECIFICATION**

*Prepared By:* Engineering Staff   
*Approved By:* Jerome T. Schmitz 

<b>Section No:</b>	MS O-21
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<b>Issue Date:</b>	03/01/16
<b>Superseded Date:</b>	02/23/15

**MISCELLANEOUS**

Modified Alkyd Paint and Primer – Aerosol Cans

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**1. SCOPE**

This specification covers a modified alkyd aerosol paint and primer to be used on Meter Set Assemblies (MSA's).

**2. APPLICABLE DOCUMENTS**

- 2.1 ASTM International (ASTM) B-117, "Salt-Spray (Fog) Testing."
- 2.2 ASTM International (ASTM) D-610, "Evaluating Degree of Rusting on Painted Steel Surfaces."
- 2.3 ASTM International (ASTM) D-3134, "Selecting and Defining Color and Gloss Tolerances of Opaque Materials and for Evaluating Conformance."
- 2.4 ASTM International (ASTM) D-4214, "Evaluating Degree of Chalking of Exterior Paint Films."
- 2.5 ASTM International (ASTM) D-4541, "Standard Practice for Quality Control Systems for an Inspection and Testing Agency for Bituminous Paving Materials."
- 2.6 ASTM International (ASTM) D-2794, "Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)."
- 2.7 American National Standards Institute (ANSI) Z55.1 Finishes for Industrial Apparatus and Equipment."

**3. TERMINOLOGY**


**3.1 General**

- 3.1.1 "Southwest Gas," "Southwest" or "SWG" wherever used in this specification and other related documents will refer exclusively to Southwest Gas Corporation.
- 3.1.2 The terms "approved," "as approved," "satisfactory," "as directed," "or equal" or other similar terms wherever used in this specification and other related documents will mean "as determined by Southwest Gas," unless specifically stated otherwise.
- 3.1.3 "Product Information Package" or "PIP" wherever used in this specification and other related documents will mean the required information that a manufacturer must submit to SWG to determine if the product is suitable for use by SWG, unless specifically stated otherwise.



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**4. MATERIALS AND MANUFACTURING**

- 4.1 The paint and primer shall be capable of being applied in the field from an aerosol can with no composition change.
- 4.2 The minimum volume solids of the modified alkyd paint shall be 23 percent.
- 4.3 The minimum volume solids of the modified alkyd primer shall be 37 percent.
- 4.4 The appearance of the modified alkyd paint is to be a medium light gray semi-gloss conforming to ANSI Z55.1 Color No. 49.
- 4.5 The modified alkyd primer shall be gray in color and shall be formulated with rust-inhibitive pigmentation for corrosion resistance.
- 4.6 The aerosol can actuator shall be a two-piece non-mechanical break up actuator.
- 4.7 The aerosol paint and primer shall not contain any lead or chromate.


**5. PERFORMANCE REQUIREMENTS**

- 5.1 The modified alkyd paint shall be capable of retaining a minimum of 48 percent +/- 1 of its initial gloss and exhibit no chalking after 230 hours exposure in a OUA Accelerated Weathering Tester. Gloss shall be measured according to ASTM D-3134, at a temperature of 60°F. Chalking shall be measured according to ASTM D-4214.
- 5.2 The modified alkyd primer shall be fast drying.
- 5.3 In accordance with ASTM B-117 “Salt Spray (Fog) Testing” and ASTM D-610 “Evaluating Degree of Rusting on Painted Steel Surfaces,” one coat of modified alkyd paint shall exhibit a rust grade of 8 or better after 345 hours of exposure. Applied over properly primed steel surface, the paint shall exhibit a rust grade of 10 after 620 hours of exposure with no more than 1/16-inch rust creepage at scribe.
- 5.4 Adhesion shall be no less than 400 psig as measured using ASTM D-4541, “Elcometer Adhesion Test.”



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**5. PERFORMANCE REQUIREMENTS (Cont'd)**



- 5.5 Impact Resistance shall be no less than 50-inch pounds as measured using ASTM D-2794.
- 5.6 The aerosol paint and primer must be capable of being stored and applied at temperatures ranging from 50°F to 120°F.

**6. INSPECTION**

- 6.1 Successful review of the Product Information Package (PIP), as well as any future reference by SWG to the Seller's part number or internal code number in any future contract or purchase, will mean only that no conflict with the specification was found, and will not relieve the Seller from meeting all the requirements of this specification.
- 6.2 SWG retains the option to inspect the manufacture and testing of any and all materials, products or systems referenced in this specification that are sold to SWG.
- 6.3 SWG will make appropriate inspections and tests of any and all materials, products or systems supplied to this specification. SWG will have the right, at their option, to reject any material which fails to conform to this specification. Any such rejection may take place at the manufacturer's facility; the supplier's warehouse or any subsequent delivery location, before or after SWG assumes possession. Notice of the rejection will be made promptly to the supplier by SWG. The defective product will be replaced or returned for credit at the manufacturer's expense.
- 6.4 Any changes in the manufacturing of previously approved materials, products or systems described in this material specification for sale to SWG, must be approved by SWG's Engineering Staff. **Failure to obtain SWG's approval may be cause for rejection and disqualification as an approved supplier.**



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**7. CERTIFICATION**

The manufacturer's or supplier's certification shall be furnished to Southwest. This certification will state that samples representing each lot have been manufactured, tested and inspected in accordance with this specification and that all requirements have been met with exception of those requirements that the Seller has specifically and clearly listed as "EXCEPTIONS" and notification in writing by SWG's Engineering Staff that the "EXCEPTIONS" have been found to be acceptable. Once accepted in writing by SWG's Engineering Staff, seller's listed "EXCEPTIONS" will be made a part of the contract or purchase order. When requested or specified in the purchase order or contract, a report of test results will be provided.

Upon the request of Southwest, the certification of an independent third party indicating conformance to the specification may be considered at Southwest's expense.

**8. SAFETY DATA SHEETS**

In accordance with law, the Seller will supply a Safety Data Sheet for all applicable items supplied under this specification to the following:

- 1) The Receiving Location
- 2) Southwest Gas Engineering Staff
- 3) Southwest Gas Corporation  
Corporate Safety  
Mail Station LVA-581  
P.O. Box 98510  
Las Vegas, NV 89193-8510

**9. PACKAGING AND PACKAGE MARKING**

- 9.1 All cans of paint and primer shall be marked with type and color of the contents. In addition, the cap to the can shall be colored to match the contents.
- 9.2 The paint and primer shall be provided in 20-ounce aerosol cans that contain not less than 15 ounces of material, avoirdupois. The can shall not utilize a fluorocarbon propellant.
- 9.3 The paint and primer shall be packaged in cardboard boxes with either 6 or 12 cans per box. The box shall be clearly marked identifying the contents and color of the material in the box.



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**9. PACKAGING AND PACKAGE MARKING** (Cont'd)

- 9.4 All paint and primer cans shall be marked with storage and application temperatures and application instructions.
- 9.5 All cans and boxes of paint and primer shall be marked with an expiration date showing the end of the useful life of the contents.

**10. STOCK CLASSIFICATION DESCRIPTION**

Paint, \_\_\_\_\_ (COLOR) (ASA 49), aerosol spray, \_\_\_\_\_ (SIZE), no lead, Seaquist AR-74 valve, Krylon nozzle PAR-51, Rust-Oleum nozzle PAR-135

Primer, \_\_\_\_\_ (COLOR), aerosol spray, \_\_\_\_\_ (SIZE), rust-inhibitive, no lead or chromate, Seaquist AR-74 valve, Krylon nozzle PAR-51, Rust-Oleum nozzle PAR-135