



ENGINEERING STAFF

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

Section No:	MS O-30
Page No.:	1 of 6
Issue Date:	03/01/16
Superseded Date:	01/27/15

MISCELLANEOUSAlkyd Primer

1. SCOPE

This specification covers a modified alkyd primer to be used for repainting of existing painted structures.

2. APPLICABLE DOCUMENTS

- 2.1 ASTM International (ASTM) B-117, "Salt-Spray (Fog) Testing."
- 2.2 ASTM International (ASTM) D-4541, "Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers."
- 2.3 ASTM International (ASTM) D-2794, "Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)."
- 2.4 United States Department of Transportation (DOT), Code of Federal Regulations (CFR), Title 49 Part 192, "Transportation of Natural and Other Gas by Pipeline; Minimum Safety Standards."

NOTE: Unless otherwise specified, the editions of the above documents incorporated by DOT 49 CFR 192 are applicable. Documents not incorporated by DOT 49 CFR 192 will be the most recent edition.

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.



ENGINEERING STAFF

MATERIAL SPECIFICATION

Prepared By: Engineering Staff

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Section No:	MS O-30
Page No.:	2 of 6
Issue Date:	03/01/16
Superseded Date:	01/27/15

MISCELLANEOUS

Alkyd Primer

4. MATERIALS AND MANUFACTURING



- 4.1 The primer shall be capable of being applied in the field using conventional air or airless equipment and/or brush.
- 4.2 The minimum volume solids of the modified alkyd primer shall be 55 percent.
- 4.3 The modified alkyd primer should be red in color and shall be formulated with rust-inhibitive pigmentation for corrosion resistance.
- 4.4 The paint shall not contain any lead or chromate.
- 4.5 Volatile Organic Compounds (VOCs) shall be no greater than 3.5 pounds per gallon prior to thinning.

5. PERFORMANCE REQUIREMENTS

- 5.1 The modified alkyd primer shall dry to touch in 15 minutes and be capable of recoating in 2 hours.
- 5.2 Adhesion shall be no less than 400 psig as measured using ASTM D-4541, "Elcometer Adhesion Test."
- 5.3 Impact Resistance shall be no less than 50-inch pounds as measured using ASTM D-2794.
- 5.4 The primer must be capable of being stored and applied at air and surface temperatures ranging from 50°F to 110°F.
- 5.5 Using ASTM B-117, after 500 hours, the primer shall show no blistering, cracking or delamination of film and no more than 1/16-inch rust creepage at scribe.
- 5.6 The primer must be capable of being applied at 1.5 to 2.5 mils dry film thickness.



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MATERIAL SPECIFICATION

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Section No:	MS O-30
Page No.:	3 of 6
Issue Date:	03/01/16
Superseded Date:	01/27/15

MISCELLANEOUS
Alkyd Primer

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.**

7. CERTIFICATION

The manufacturer's or supplier's certification will be furnished to SWG. 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. 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.



ENGINEERING STAFF

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Section No:	MS O-30
Page No.:	4 of 6
Issue Date:	03/01/16
Superseded Date:	01/27/15

MISCELLANEOUSAlkyd Primer

7. CERTIFICATION (Cont'd)

If the Seller has specifically and clearly listed any items as an "EXCEPTION" to those requirements the Seller will be notified, in writing, by SWG's Engineering Staff that its listed "EXCEPTIONS" have been reviewed and found to be acceptable, no changes will be made to the paint, including product improvement changes, without prior resubmittal of "EXCEPTIONS" and notification in writing by SWG's Engineering Staff that their "EXCEPTIONS" have been found to be acceptable. Once accepted in writing by SWG's Engineering Staff, Seller's listed "EXCEPTIONS" will be made part of the contract or purchase order.

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-120
P.O. Box 98510
Las Vegas, NV 89193-8510

9. PACKAGING AND PACKAGE MARKING

- 9.1 All cans of primer shall be marked with type and color of the contents.
- 9.2 The primer shall be provided in one gallon cans.
- 9.3 The primer shall be packaged in cardboard boxes with 4 cans per box. The box shall be clearly marked identifying the contents and color of the material in the box.
- 9.4 All primer cans shall be marked with storage and application temperatures and application instructions.
- 9.5 All cans and boxes of primer shall be marked with an expiration date showing the end of the useful life of the contents.



SOUTHWEST GAS CORPORATION

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Section No:	MS O-30
Page No.:	5 of 6
Issue Date:	03/01/16
Superseded Date:	01/27/15

MISCELLANEOUS

Alkyd Primer

10. STOCK CLASSIFICATION DESCRIPTION

PRIMER, _____ (COLOR), MODIFIED ALKYD, _____ (SIZE) CAN, RUST-INHIBITIVE, NO LEAD OR CHROMATE.