

F.S.P.M.A. PAINT SPECIFICATION

DIVISION 9 - FINISHES
SECTION 09910 EXTERIOR PAINT
FOR
GENERAL EDUCATIONAL FACILITIES USE

MP-22.3
EXTERIOR-INTERIOR PRIMER/SEALER, ACRYLIC-BASE, FLAT, WHITE

I. SCOPE, USE AND CLASSIFICATION:

- A. SCOPE. This specification covers a quick drying water thinned, acrylic based undercoater for priming and sealing porous surfaces. Formulated with exceptional adhesion, it adheres to glossy surfaces of varnish or enamel, glass, galvanized (treated and/or aged) metal and vinyl wall coverings. It seals new drywall and plaster surfaces, and may be used as an undercoater on interior wood surfaces. It is not recommended for use on ferrous metals. The product may be tinted with up to 4 ounces of universal colorant per gallon.
- B. USE. Containers shall have labels, meeting ANSI standards and giving adequate use instructions, firmly secured to each container. Labels shall meet all federal regulation requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard in CFR 1910.1200.
- C. CLASSIFICATION. The paint covered by this specification is a latex primer.

II. REQUIREMENTS:

- A. MATERIALS. The paint shall be formulated from materials as specified herein. Materials not specified shall be selected by the supplier and shall be subject to all the provisions of this specification. The paint shall be free from material which is known to be toxic to personnel under normal conditions of use.
 - 1. PIGMENT. Pigmented with titanium dioxide, conforming to ASTM D 476, Type IV, and extender pigments to obtain good hiding and chemical resistance.
 - 2. VEHICLE. The vehicle shall consist of acrylic emulsion with necessary additions of miscellaneous additives.
 - 3. RESTRICTED METALS. The paint shall comply with the latest requirements of the Federal, Florida State, City or Local Governments for maximum allowable restricted metals content.
 - 4. VOC COMPLIANCE. The paint shall comply with the latest requirements of the Federal, Florida State, City or Local Governments for the maximum allowable VOC content at the time of purchase.
- B. QUANTITATIVE REQUIREMENTS. The paint shall conform to the quantitative requirements as specified in Table I.

TABLE I. QUANTITATIVE REQUIREMENTS

Characteristic	Tolerance Requirements	
	Minimum	Maximum
1. % Solids by weight	50 (-2)	-
2. Pigment, % by wt. of paint	34 (-2)	-
3. Non-volatile vehicle, % by wt. of paint	10 (-2)	-
4. Weight per gallon of paint, lbs.	11.6(-0.5)	-
5. Viscosity, K.U.	80 (-3)	108 (+3)
6. Dry time: set-to-touch, hours.	-	2
7. Dry hard for recoat, hours.	-	4
8. Directional reflectance, white, %.	91 (-1)	-
9. Hiding power, contrast ratio, white, when applied at 540 sq. ft. per gal.	0.97	-
10. Nonvolatile matter, % by volume of paint*.	36	-

** In order to confirm compliance with this requirement(s) the vendor shall submit either a formal report from an independent laboratory or a confidential, notarized, legally-binding manufacturer's report indicating the method used and the laboratory results obtained for the specific brand submitted for certification.*

C. QUALITATIVE REQUIREMENTS.

1. COLOR. The color of the paint specified in the contract or purchase order shall match that of the standard color chip. If a color other than white is required, the color shall match that of the standard color chip submitted by the purchaser with the bid.
2. CONDITION IN CONTAINER. The paint, when tested as specified in Table II, shall be free from grit, seeds, skins, lumps and livering, and shall show no more pigment settling or caking than can be reincorporated into a smooth homogenous state. In a freshly opened container, there shall be no rusting of the container.
3. STORAGE STABILITY IN UNOPENED CONTAINER. All containers shall have sufficient preservatives to prevent spoilage for one year.
4. APPEARANCE OF DRIED PAINT. When applied by brushing or rolling, the paint shall dry to a smooth, uniform finish, free from craters and other defects caused by bubble retention. There shall be no "shiners," no flashing, no streaking or conspicuous laps, nor any objectionable brush marks.
5. ODOR. The odor shall not be putrid during or after application.

6. MATERIAL SAFETY DATA SHEET (MSDS). An MSDS clearly identifying this product, filled out completely according to the Florida Right-to-Know Law, Chapter 442, Florida Statutes, MUST BE submitted with each sample submitted for certification.
7. STORAGE STABILITY IN A PARTIALLY FULL CONTAINER. The paint shall show no skinning after 48 hours when tested as specified in III.B. After an additional 14 days, at 120 F., the same sample shall show no skinning, livering, curdling, hard caking, or gummy sediment. It shall mix readily to a homogenous state and the viscosity change shall not be greater than ± 10 K.U.

III. TEST PROCEDURES FOR LABORATORY ANALYSIS:

The failure of any test in this section shall constitute a failure of the product to conform to the specification.

Unless otherwise noted, all test methods cited are the latest published revisions.

- A. PHYSICAL AND CHEMICAL PROPERTIES. The following tests shall be conducted in accordance with the methods as specified in Table II.

TABLE II. TEST AND METHODS

Test	Methods
1. Total Solids, % by wt. of paint	ASTM D-2369
2. Weight per gallon	ASTM D-1475
3. Viscosity, Krebs-Stormer	ASTM D-562
4. Hiding power, contrast ratio.	ASTM D 2805
5. Storage stability in partially full container.	FTM Std. 141C, Meth. 3021.1
6. Adhesion test*	ASTM D 4541(Revised 3/10/2000)
7. Condition in container.	FTM Std. 141C, Meth. 3011.2
8. Directional Reflectance.	ASTM E 97
9. Non-volatile vehicle, % by wt. of paint.	FTM Std. 141C, Meth. 4053.1
10. Pigment, % by wt. of paint.	ASTM D 3723
11. Drying time.	ASTM D 1640
12. Nonvolatile matter (% by volume)	ASTM D 2697

**ADHESION TEST - 100 lbs./sq. in. minimum when tested on a film prepared according to MP-6.7, III, B, 1, with two weeks curing time. (Revised from ASTM D 3359 Method A & B per committee vote on 3/10/2000.)*

- B. STORAGE STABILITY IN PARTIALLY FULL CONTAINER. Determine skinning after 48 hours in accordance with Federal Test Method Standard No. 141C, Method 3021.1, except use a 3/4 filled pint, multiple friction top can. Then reseal and store for 14 days at 120 F. Check for compliance with II.C.7.

IV. METHODS OF SAMPLING, INSPECTION, AND OTHER TESTS:

- A. SAMPLING. At the option of the purchaser, representative samples shall be taken from deliveries made under this invitation and submitted for quality control testing. If the purchaser's sample fails, the manufacturer shall pay for the actual cost of testing. Failure of any sample so taken to comply with the specification requirements shall invalidate any purchase contract made under this invitation unless the manufacturer requests a repeat quality control test. This second sample shall be from the same batch. The manufacturer shall pay for the second quality control test should the sample fail, and this invalidates any purchase contract made under this invitation. If the second sample passes, the manufacturer is not responsible for paying the actual cost of the test, and results obtained from the second quality control test shall prevail.

- B. INSPECTION. Physical inspection of package, condition, quantity, and labeling shall be made at point of delivery by the purchaser. MSDS shall be submitted with each shipment in accordance with the Florida Right-to-Know Law, Chapter 442, Florida Statutes, and shall be identical to the MSDS supplied for initial certification.

- C. OTHER TESTS.
 - 1. COMPATIBILITY (when colorant is added). In a beaker containing approximately 100 ml of paint, place 2.0 grams of tinting medium concentrate supplied by the manufacturer of the paint. Stir thoroughly until the tinting concentrate is evenly dispersed to a homogenous mixture. Allow the mixture to stand undisturbed for five minutes. On one clear plate glass panel prepared in accordance with Method 2021 of Federal Test Method Std. No 141C, brush a coat of the mixture to approximately 1 mil dry film thickness and allow to dry at room temperature in a vertical position for 24 hours. While brushing, observe for streaks and pigment separation. On another panel with same preparation draw down (approximately) 2.0 mils wet film thickness of the mixture. While the paint is still wet, rub-up an area using the index finger in circular motion and continue for a minimum of 20 revolutions. Exert light pressure of the finger while rubbing so as not to rub-off the film. Allow the paint film to dry at room temperature for 24 hours. Examine the dried film and compare the rubbed-up area against the unrubbed-up area. A difference in color, gloss, and texture of the dried film between these areas constitutes incompatibility.

NOTE: TEST TO MEET THIS SPECIFICATION DOES NOT INCLUDE AN IN-USE PERFORMANCE TEST. ALL EDUCATIONAL AGENCIES SHOULD CONSIDER AN IN-USE PERFORMANCE TEST BEFORE PURCHASING THIS PRODUCT.

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