



HOME of MAGNUM[®] BOARD

“The New Generation Building Material”

TECHNICAL BULLETIN No.:	071509-1236
Subject:	Exterior Painting Guidelines
Issue Date:	July 15, 2009
Issue No.:	1 (Sherwin Williams)

1.0 PURPOSE

- 1.1 To provide a guideline to painting Magnum Board[®] Products.
- 1.2 Use this guide or any equivalent product.

2.0 GENERAL

- 2.1 Magnum Building Products has tested its products with many manufacturers' products and all tested work extremely well.
- 2.2 If you would like further information about finish products and Magnum Board please contact the home office.

3.0 RESPONSIBILITY

- 3.1 It is the responsibility of the painter to ensure the guidelines are followed.
- 3.2 Always ensure materials are properly cleaned before beginning the finish process.

4.0 PROCEDURE

- 4.1 See attached Sherwin Williams painting guidelines for Magnum Board[®] Products.

5.0 REFERENCES

- 5.1 Magnum Building Products[®] “MSDS”



SHERWIN-WILLIAMS®
Chemical Coatings

The Sherwin-Williams Company

9/2009

**MAGNUM BUILDING PRODUCTS
PROPOSED PAINT SYSTEM GUIDE**

1.0 EXTERIOR PAINT SCHEDULE

A. MAGNUM BP(Field Applied Primer and Finish)

1. Latex Finish

a. Gloss Finish

1st Coat: S-W Loxon® Exterior Acrylic Masonry Primer, A24W8300

(8 mils wet, 3.2 mils dry)

2nd Coat: S-W Super Paint Exterior Acrylic Gloss

3rd Coat: S-W Super Paint Exterior Acrylic Gloss

(4 mils wet, 1.4 mils dry per coat)

b. Satin Finish

1st Coat: S-W Loxon® Exterior Acrylic Masonry Primer, A24W8300

(8 mils wet, 3.2 mils dry)

2nd Coat: S-W Super Paint Exterior Acrylic Satin

3rd Coat: S-W Super Paint Exterior Acrylic Satin

(4 mils wet, 1.44 mils dry per coat)

1.1 INTERIOR PAINT SCHEDULE

A. MAGNUM BP(Field Applied Primer and Finish)

1. Latex Finish

a. Matte Finish

1st Coat: S-W Adhesion Promoting Primer B51W50

(4 mils wet, 1.7 mils dry)

2nd Coat: S-W Duration® Interior Acrylic Matte, A96 Series

3rd Coat: S-W Duration® Interior Acrylic Matte, A96 Series

(4 mils wet, 1.6 mils dry per coat)

b. Satin Finish

1st Coat: S-W Adhesion Promoting Primer, A24W300

(4 mils wet, 1.7 mils dry)

2nd Coat: S-W Duration Interior Acrylic Satin-Semi Gloss, A97-A98 Series

3rd Coat: S-W Duration Interior Acrylic Satin-Semi Gloss, A97-A98 Series

(4 mils wet, 1.6 mils dry per coat)

1.2 SURFACE PREPARATION:

A Proper product selection, surface preparation, and application affect coating performance. Coating integrity and service life will be reduced because of improperly

prepared surfaces. Selection and implementation of proper surface preparation ensures coating adhesion to the substrate and prolongs the service life of the coating system.

B Selection of the proper method of surface preparation depends on the substrate, the environment, and the expected service life of the coating system. Economics, surface contamination, and the effect on the substrate will also influence the selection of surface preparation methods.

C Cement Composition Siding/Panels

Remove all surface contamination by washing with an appropriate cleaner, Rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Pressure clean, if needed, with a minimum of 2100 psi pressure to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. The pH of the surface should be between 6 and 9, unless the products are designed to be used in high pH environments.

D New cellular vinyl composite board: The surface must be clean, dry, scuff sanded and in sound condition. Remove oil, dust, dirt, or other contamination to ensure good adhesion. Clean thoroughly by scrubbing with a warm, soapy water solution. Rinse thoroughly.

Painting with darker colors may cause siding to warp, unless SuperPaint® VinylSafe™ is used.

E Previously Coated Surfaces: Maintenance painting will frequently not permit or require complete removal of all old coatings. However, all surface contamination such as oil, grease, loose paint, mill scale, dirt, foreign matter, rust, mold, mildew, loose mortar, efflorescence, and sealers must be removed to assure sound bonding to the tightly adhering old paint.

Glossy paint surfaces must be clean and dull before repainting. Thorough washing with an abrasive cleanser may clean and dull in one operation, or, wash thoroughly and dull by sanding. Spot prime any bare areas with an appropriate primer.

Note that any surface preparation short of total removal of the old coating may compromise the service length of the system. Check for compatibility of the recommended coating system by applying a test patch, covering at least 2 to 3 square feet. Allow surface to dry one week before testing adhesion per ASTM D3359. If the coating system is incompatible, complete removal is required.

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Remove mildew before painting by washing with a solution of 1 part liquid Household bleach and 3 parts of warm water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes; however, do not allow the solution to dry on the surface. Rinse thoroughly with clean water and allow the surface to dry 48 hours before painting. Wear protective glasses or goggles, waterproof gloves, and protective clothing. Quickly wash off any of the solution that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

F No exterior painting should take place immediately after a rain, during foggy weather, when rain is predicted, or when the temperature is below 50°F unless the specified product is designed for the marginal conditions.

1.3 INSTALLATION

A Apply all coatings and materials with manufacturer's specifications in mind. Mix and thin coatings according to manufacturer's recommendation

B Do not apply to wet or damp surfaces.

1 Test new substrate for moisture content.

2 Do not leave or store unfinished doors outside.

3 Cellular vinyl composite board should not be finished under very humid conditions.

C Apply coatings using methods recommended by the manufacturer.

D Uniformly apply coatings without runs, drips, or sags, without brush marks, and with consistent sheen.

E Apply coatings at spread rates required to achieve the manufacturer's recommended dry film thickness.

1.4 PROTECTION

A Protect finished coatings from damage until completion of project.

B Touch-up damaged coatings after substantial completion, following manufacturer's recommendation for touch up or repair of damaged coatings. Repair any defects that will hinder the performance of the coatings.



**SHERWIN
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MASONRY

COATING SYSTEMS

Concrete Solutions. Solid Results.

Loxon®

ACRYLIC PRIMER

A24W300

As of 09/22/08, Complies with:		
OTC	Yes	LEED® C1v2.0 No
SCAQMD	Yes	LEED® NCv2.2 No
CARB	Yes	LEED® CSv2.0 No
MPI Spec #	3	LEED® H No
NAHB		

CHARACTERISTICS

Loxon Acrylic Primer is an acrylic coating specifically engineered for exterior, above-grade, masonry surfaces requiring a high performance primer. It is highly alkali and efflorescence resistant. It reinforces the performance of exterior latex paints and can be used on concrete, concrete block, brick, and stucco. This may be applied to a surface with a pH of 6 to 13.

Color: White

Coverage: 200 sq ft/gal
@ 8 mils wet; 3.2 mils dry
Coverage on porous & rough stucco 80 square feet per gallon

Drying Time, @ 77°F, 50% RH:
Drying and recoat times are temperature, humidity and film thickness dependent.

Touch: 4 hours

Recoat: 24 hours

Flash Point: N/A

Finish: 0-10 units @ 85°

Tinting - For best color development, use the recommended "P"-shade primer. If desired, up to 4 oz per gallon of Blend-A-Color Toner can be used to approximate the topcoat color. Check color before use.

Vehicle Type: Acrylic

A24W300

VOC: 97 g/L; 0.81 lb/gal

Volume Solids: 40 ± 2%

Weight Solids: 54 ± 2%

Weight per Gallon: 10.8 lb

PHYSICAL PROPERTIES

Flexibility Passes
ASTM D522 - Method B, 180° bend,
1/8" mandrel

Alkali Resistance Passes
Based on ASTM D1308

Mildew Resistance Passes
ASTM D3273/D3274

SPECIFICATION

Must be topcoated within 14 days.

Concrete, Stucco, Block

1 ct. Loxon Acrylic Primer
2 cts. Appropriate latex topcoat
Spray and backroll on porous & rough stucco to achieve required film build and a pin-hole free surface.

APPLICATION

Apply at temperatures above 50°F.

No reduction necessary.

Do not paint in direct sun or on a hot surface.

May be applied to damp but not to wet surfaces.

Brush

Use a quality nylon/polyester brush.

Roller

Use a quality 1/2" to 1-1/2" nap synthetic roller cover.

Spray—Airless

Pressure 2000-2700 psi

Tip019"

Reduction none

Spray—Conventional

Air Pressure 40-60 psi

Fluid Pressure 20 psi

Cap/Tip 704/FX

Reduction up to 1 pint/gallon

Spray and backroll on porous & rough stucco to achieve required film build and a pin-hole free surface.

SURFACE PREPARATION

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Concrete/Stucco/Block

All new surfaces must cure for at least 7 days. Remove all form release and curing agents. Pressure clean (minimum 2100 psi) to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, peeling and defective coatings, chinks, etc. Allow the surface to dry before proceeding. Repair cracks, voids, and other holes with ConSeal™ Patches and Sealants.

Mildew

Remove before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

108.11

LOXON[®]

ACRYLIC PRIMER

A24W300



SURFACE PREPARATION

Caulking

Gaps between windows, doors, trim, and other through-wall openings can be filled with the appropriate caulk after priming the surface.

CLEANUP INFORMATION

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using mineral spirits.

CAUTIONS

For exterior use only.
Protect from freezing.
Non-photochemically reactive.

LABEL CAUTIONS

CAUTION contains CRYSTALLINE SILICA, ZINC. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

HOTW 09/24/2008 A24W00300 23 00

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Sheet.



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As of 12/03/08, Complies with:			
OTC	Yes	LEED® Civ2.0	N/A
SCAQMD	No	LEED® NCv2.2	N/A
CARB	Yes	LEED® CSv2.0	N/A
MPI Spec #	No	LEED® H	N/A
NAHB	N/A		



102.14

Duration®

**EXTERIOR LATEX SATIN COATING
K33 SERIES**



<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>APPLICATION</u>																														
<p>Duration® Exterior Latex Coating is the result of advances in acrylic technology. Duration uses PermaLast® technology to provide you with the most durable and longest lasting coating available for protecting the outside of your home.</p> <p>VinylSafe™ Color Technology allows the use of many darker colors on vinyl siding that cannot be made in most other coatings.</p> <p>Performance</p> <ul style="list-style-type: none"> • One Coat Protection • Self-Priming • Easy Application • Superior Hiding • Thicker. More Flexible • Resists Blistering and Peeling <p>Projects</p> <ul style="list-style-type: none"> • Homes • Windows • Gutters • Trim • Architectural plastics, such as shutters & gutters <p>Surfaces</p> <ul style="list-style-type: none"> • Wood • Stucco • Masonry/Cement Composition Panels • Aluminum Siding • Vinyl Siding • Galvanized Metal <p>MILDEW RESISTANT. This coating contains agents that inhibit the growth of mildew on the surface of this coating.</p>	<p>Color: Most colors</p> <p>Coverage: 250-300 sq ft/gal up to 7.0 mils wet; 2.8 mils dft</p> <p>Drying Time, @ 77°F, 50% RH: temperature and humidity dependent</p> <table> <tr> <td></td> <td>@ 35-45°F</td> <td>@ 45°F +</td> </tr> <tr> <td>Touch:</td> <td>2 hour</td> <td>1 hour</td> </tr> <tr> <td>Recoat:</td> <td>24-48 hours</td> <td>4 hours</td> </tr> </table> <p>Flash Point: N/A</p> <p>Finish: 10-20 units @ 60°</p> <p>Tinting with Blend-A-Color:</p> <table> <thead> <tr> <th>Base</th> <th>oz/gal</th> <th>Strength</th> </tr> </thead> <tbody> <tr> <td>Extra White</td> <td>0-6</td> <td>125%</td> </tr> <tr> <td>Light Yellow</td> <td>4-15</td> <td>125%</td> </tr> <tr> <td>Deep Base</td> <td>4-15</td> <td>125%</td> </tr> <tr> <td>Ultradeep Base</td> <td>4-15</td> <td>125%</td> </tr> </tbody> </table> <p>Vehicle Type: Acrylic</p> <p>K33W151</p> <p>VOC (less exempt solvents): 113 g/L; 0.94 lb/gal</p> <p>Volume Solids: 41 ± 2%</p> <p>Weight Solids: 53 ± 2%</p> <p>Weight per Gallon: 10.5 lb</p> <p>CLEANUP INFORMATION</p> <p>Clean hands and tools immediately after use with soap and warm water. The PermaLast technology in DURATION, which creates the tenacious bond to the surface, also creates a tenacious bond to applicators and any other surface it comes in contact with. You may want to clean occasionally during use. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturers safety recommendations when using mineral spirits.</p>		@ 35-45°F	@ 45°F +	Touch:	2 hour	1 hour	Recoat:	24-48 hours	4 hours	Base	oz/gal	Strength	Extra White	0-6	125%	Light Yellow	4-15	125%	Deep Base	4-15	125%	Ultradeep Base	4-15	125%	<p>Thoroughly follow the recommended surface preparations. Most coating failures are due to inadequate surface preparation or application. Thorough surface preparation will help provide long term protection with DURATION coating. On repaint work, apply one coat of DURATION coating; on bare surfaces, apply two coats of DURATION, allowing 4 hours drying between coats.</p> <p>Do not paint in direct sun. Apply at temperatures above 35°F. During application at temperatures above 80°F, DURATION sets up quickly. Some adjustment in your painting approach may be required. Paint from a dry area into the adjoining wet coating area. Dries to touch in 1 hour and is ready for service overnight.</p> <p>Previously Painted Surfaces -- Spot prime bare areas with DURATION, wait 4 hours, and paint the entire surface. Some specific surfaces require specialized treatment.</p> <p>Unpainted Surfaces -- DURATION can be used as a self-priming coating on many bare surfaces. When used this way, the first coat of DURATION acts like a coat of primer and the second coat provides the final appearance and performance. However, some specific surfaces require specialized treatment. See following surface preparations.</p> <p>When the air temperature is at 35°F, substrates may be colder; prior to painting, check to be sure the air, surface, and material temperature are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours.</p> <p>Do not apply at air or surface temperatures below 35°F or when air or surface temperatures may drop below 35°F within 48 hours. On large expanses of metal siding, the air, surface, and material temperatures must be 50°F or higher.</p> <p>No reduction necessary.</p> <p>Brush - Use a nylon/polyester brush.</p> <p>Roller - Use a 3/8" - 3/4" nap synthetic cover.</p> <p>Spray—Airless</p> <table> <tr> <td>Pressure</td> <td>2000 psi</td> </tr> <tr> <td>Tip</td> <td>.015"-.019"</td> </tr> <tr> <td>Reduction</td> <td>none</td> </tr> </table>	Pressure	2000 psi	Tip015"-.019"	Reduction	none
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Duration[®]

EXTERIOR LATEX SATIN COATING

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SURFACE PREPARATION

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Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Scrape and sand peeled or checked paint to a sound surface. Sand glossy surfaces dull. Seal stains from water, smoke, ink, pencil, grease, etc. with PrepRite[®] ProBlock[®] Primer Sealer.

Aluminum and Galvanized Steel

Wash to remove any oil, grease, or other surface contamination. All corrosion must be removed with sandpaper, steel wool, or other abrading method.

Cement Composition Siding/Panels

Remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. If the surface is new, test it for pH, if the pH is higher than 8, prime with Loxon Acrylic Primer.

Cement, Concrete, Masonry, Block

All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Acrylic Primer. Cracks, voids, and other holes should be repaired with ConSeal Patch or Sealant.

After power washing, previously painted masonry may still have a powdery surface that should be sealed with **Loxon Conditioner** and then apply 1 coat of **DURATION**.

SURFACE PREPARATION

Composition Board/Hardboard

Because of the potential for wax bleeding out of the substrate, apply 1 coat of **A-100[®] Exterior Oil Stain Blocking Primer** and then top-coat.

Steel

Rust and mill scale must be removed using sandpaper, steel wool, or other abrading method. Bare steel must be primed the same day as cleaned.

Stucco

Remove any loose stucco, efflorescence, or laitance. Allow new stucco to cure at least 30 days before painting. If painting cannot wait 30 days, allow the surface to dry 5-7 days and prime with Loxon Masonry Primer. Repair cracks, voids, and other holes with ConSeal[™] Patches and Sealants.

Vinyl Siding

Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly.

Wood

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. All patched areas must be primed.

Knots and some woods, such as redwood and cedar, contain a high amount of tannin, a colored wood extract. If applied to these bare woods, the first coat of **DURATION** may show some staining, but it will be trapped in the first coat. A second coat will uniform the appearance. If staining persists, spot prime severe areas with 1 coat of **A-100 Exterior Oil Stain Blocking Primer** prior to using **DURATION**.

Caulking

Gaps between windows, doors, trim, and other through-wall openings can be filled with the appropriate caulk after priming the surface.

CAUTIONS

For exterior use only.
Protect from freezing.
Non-photochemically reactive.

LABEL CAUTIONS

CAUTION contains CRYSTALLINE SILICA and ZINC. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

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