

SPECIFICATION & WARRANTY INFORMATION FOR THE **PERMA-WHITE®** MOLD & MILDEW-PROOF* INTERIOR PAINT SYSTEM

Details of our five-year mold & mildew-proof
paint film warranty*



* PERMA-WHITE® Mold & Mildew-Proof* Interior Paint contains a mildewcide that prevents growth of mold & mildew on the paint film only.

ZINSSER Co. Inc.

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*The information and recommendations provided in this document reflect ZINSSER's best knowledge on the publication date of this document – **November 13, 2003**. ZINSSER® may revise these recommendations without giving notice to document holders. Contact ZINSSER's Commercial Sales Department (732-469-8100) to determine whether revisions have been made before implementing the recommendations contained in this document.*

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INTRODUCTION

Mold & mildew can occur wherever mold (fungi) spores find sufficient moisture and food to grow. Because mold spores are found practically everywhere; and, because many common construction materials--wood, drywall, adhesives and most paint--provide food for mold; eliminating the sources of moisture is the most effective method to prevent it.

Keeping surfaces sufficiently dry however, is not easy due to modern construction methods and the use of air-conditioning. Many energy-efficient buildings are tightly sealed to prevent the loss of heating or cooling. Such tight construction can trap moisture inside a building. As temperatures fluctuate the moisture condenses on ceilings, walls and floors contributing to the growth of mold & mildew.

- o Mold and mildew causes unsightly stains, generates bad odors, and over time deteriorates the material on which it feeds.

The first and best means to avoid mold & mildew is to eliminate sources of moisture through building design, good construction and effective maintenance. However, seasonal fluctuations in temperature and humidity can still cause intervals of dampness sufficient for mold to grow. In this situation the property owner is left with the following choices.

- A. Do nothing
- B. Modify HVAC to produce positive air pressure inside the building and dehumidify air brought into the building.
- C. Control the problem by using **mold & mildew-proof*** building materials.

ZINSSER® PERMA-WHITE® Mold & Mildew-Proof* Interior Paint addresses option C -- controlling the problem by using mold resistant paint because ordinary primers and paints can provide a rich food source for its growth.

PERMA-WHITE® Mold & Mildew-Proof* Interior Paint contains an EPA-registered fungicide and proprietary resin that prevent the growth of mold & mildew on the cured paint film while providing a durable and attractive finish. It is washable, resists dirt and stains, and can be tinted to off-whites, pastels and medium colors. Results of laboratory tests and long-term field trials support the conclusion that the use of **PERMA-WHITE®** provides the property owner a method to significantly reduce the growth of mold & mildew on the paint film itself and thereby preventing stains and reducing odors. **ZINSSER® GUARANTEES** that the paint film will be free of mold & mildew for 5 YEARS.

This specification describes **ZINSSER® PERMA-WHITE® Interior Paint System** and the procedures through which property owners may receive the 5-Year Warranty.

PERMA-WHITE® Mold & Mildew-Proof* Interior Paint contains a mildewcide that prevents growth of mold & mildew on the paint film only.

The ZINSSER® PERMA-WHITE® Mold & Mildew-Proof* Interior Paint System SPECIFICATION

Recommended procedures for long-term prevention of mold & mildew on the paint film for interior walls and ceilings only.

1.00 SCOPE

- 1.01 This specification defines a system to prevent staining and deterioration of the paint film caused by mold & mildew growth, as well as the offensive odor associated with it.

This system is intended for use in buildings where seasonal fluctuations in temperature and humidity cause intervals of dampness sufficient to support the growth of mold & mildew.

The benefits of this system are achieved through use of a paint that is particularly resistant to mold & mildew growth. The benefits are significant because standard primers and paints provide nutrients for mold & mildew and thereby foster its growth whereas the paint used in this system prevents mold & mildew growth for at least five years.

1.02 Terminology:

Mold & Mildew - is used synonymously for the more scientific term 'fungus' and refers specifically to fungal organisms and not to stains or discolorations that they may cause.

Mold & Mildew Stain - visible stains or discoloration caused by mold & mildew on the paint film.

Antimicrobial - inhibits the growth of odor causing microbes on the paint film (does not protect against food borne or disease-causing bacteria).

1.03 Limitations:

The system defined by this specification should not be used as a substitute for proper building design, construction or maintenance. The first and best means to avoid mold & mildew growth is to eliminate sources of moisture through building design, construction and maintenance.

The scope of this specification does not encompass requirements for fungal prevention or remediation in health care facilities or other facilities occupied by individuals with respiratory ailments, hypersensitive to mold(s), or with weakened immune systems.

This specification deals only with the specific conditions that may occur on the painted surface of interior walls and ceilings and does not address other potential sites for fungal contamination--wall cavities, air ducts, drain pans, etc. The property owner should conduct a thorough investigation of all areas where moisture may collect and support fungal contamination and develop specific plans to correct each situation. Concerns about unseen or structural mold damage should be referred to a mold remediation specialist. (See Appendix A for helpful resources)

This system will not prevent damage or deterioration to substrates and materials below or above the paint film. Specifically, this system will not prevent: a) de-lamination of drywall facing paper from gypsum core; b) deterioration of gypsum core; c) rusting of fasteners, nails or metal wall studs; d) warping of wood studs; e) mold & mildew growth other than on the paint film itself.

- *PERMA-WHITE® Mold & Mildew-Proof* Interior Paint contains a mildewcide that prevents growth of mold & mildew on the paint film only.*

The paint recommended in this specification contains an EPA-registered fungicide to inhibit the growth of odor and stain causing bacteria, mold & mildew on the cured paint film. This product does not take the place of normal cleaning and disinfecting. The paint does not protect users or others against food-borne or disease-causing bacteria or mold.

1.04 Precautions:

Work required by this specification may expose workers and others to potentially hazardous conditions. Prior to commencement of work, the property owner or designee, should develop a plan that includes the following:

- a) A plan to protect workers, other building occupants, and the general public. from increased risk that may be caused by the work.
- b) A plan to prevent contamination of non-affected areas in the building.
- c) A plan to communicate the work schedule.
- d) A plan to manage waste disposal.

2.00 WORKMANSHIP

- 2.01 All work must be executed by skilled craftsmen, knowledgeable and experienced in their trade, with thorough technical skills and knowledge in the prevention and remediation of fungal contamination.
- 2.02 All cleaners (including bleach), patching compounds, primers, and paints must be used properly and in strict accordance with manufacturer's recommendations. Manufacturer's general guidelines for proper application rates, dilution instructions, re-coat times, etc., shall be followed.
- 2.03 **PERMA-WHITE®** Mold & Mildew-Proof* Interior Paint is a two (2)-coat system. The recommended spread rate of **PERMA-WHITE®** - apply each coat at a rate of 350 – 400 square feet per gallon, creating a 4.0 Mils WFT (Wet Film Thickness) per coat and/ or a pinhole free 1.5 Mils DFT (Dry Film Thickness) per coat. Spread rate coverage may vary depending on the roughness and porosity of the surface to be coated and also the method of application.
- 2.04 All procedures recommended by ZINSSER®- including those detailed on the label directions and the product Technical Data Bulletin- must be followed. In addition, all safety rules and regulations of the property owner, applicable Federal, State, and local laws (including OSHA regulations and insurance and underwriter's requirements, where applicable) must be strictly observed by personnel engaged in the storing, handling, use, and application of bleach, cleaners, primers, and adhesives.

MATERIALS

- 3.00 **PERMA-WHITE®** Mold & Mildew-Proof* Interior Paint – Available in Eggshell, Satin or Semi-Gloss Sheen
White or may be tinted to off-whites or pastels or medium colors
ZINSSER Co. Inc., 173 Belmont Dr., Somerset, NJ 08875, (732) 469-8100

Gloss / Sheen Levels: (2-coat readings)

	<u>At 60°</u>	<u>At 80°</u>
Eggshell	4% - 8%	15% - 20%
Satin	13% - 23%	47% - 52%
Semi-Gloss	45% - 55%	80% - 85%

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- 3.01 **GARDZ® Damaged Drywall Sealer**,
ZINSSER Co. Inc., 173 Belmont Dr., Somerset, NJ 08875, (732) 469-8100
- 3.02 **Clorox® Ultra Bleach**
The Clorox Company, Pleasanton, CA 94566-0803
- 3.03 **Moisture Meter**
Delmhorst Instrument Co., 51 Indian Lane East, P. O. Box 68, Towaco, NJ 07082
(800) 222-0638 email: info@delmhorst.com
- 3.04 **Bulls Eye® Odorless**
ZINSSER Co. Inc., 173 Belmont Dr., Somerset, NJ 08875, (732) 469-8100

4.00 WORK REQUIREMENTS

4.01 Site preparation:

The property owner will remove and store all furniture, bedding, headboards, artwork, drapery, mirrors and wall or swag lamps. The contractor is responsible for preventing damage to surfaces adjacent to the work surface-- doors, trim, windows and floors. The contractor will furnish portable work lights, fans and filters as required by this specification. The contractor is responsible for collecting and bagging trash. The property owner will be responsible for disposing of trash.

4.02 Ventilation:

Surface preparation may aerosolize mold(s). The property owner is responsible for adjusting the buildings ventilation system to prevent aerosolized mold from escaping work area. The contractor is responsible for establishing work zones partitioned with plastic sheeting. Negative air pressure must be maintained within work zones to prevent aerosolized mold and dust from escaping into adjacent areas. Air exhausted from a work zone must pass through a HEPA filter.

4.03 Worker safety:

Workers should wear NIOSH approved respirators for airborne particulate and an acid-gas cartridge for protection when cleaning with bleach. In addition, protective clothing, gloves, and eye protection should be worn as recommended on Material Safety Data Sheets. (See Appendix A for resources for respirators.)

4.04 Surface Preparation: Surfaces to be painted must be clean, dry, smooth, structurally sound and neutral in pH. Remove dust, dirt, chalk, rust, oils, wax, stains or other surface contaminants. Clean areas with mold & mildew per Section 4.05.

4.04.1 New work never previously painted

- 4.04.1.1 Gypsum board finish level and treatment of joints
 - 4.04.1.1.1 Surfaces to be textured – Level 3
 - 4.04.1.1.2 Surfaces to be painted – non-critical lighting conditions - Level 4
 - 4.04.1.1.3 Surfaces to be painted - critical lighting conditions – Level 5
- 4.04.1.2 Wood – Sand smooth, seal and putty counter-sunk nail holes.
- 4.04.1.3 Concrete block – Remove efflorescence and mortar drips or protrusions.
- 4.04.1.4 Poured concrete – Remove form release agents or efflorescence. Fill bug-holes as directed by property owner.
- 4.04.1.5 Galvanized metal – Thoroughly wash to remove oils, oxidants or waxes.
- 4.04.1.6 Ferrous metal – Remove rust and thoroughly wash the surface.

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4.05 Mold & Mildew-stain and surface cleaning

Remove mold & mildew stains using a mixture of 1 cup Clorox® Ultra Household Bleach with one gallon of clean water or a quality biocidal wash. (Bleach has a shelf-life and use of Clorox® brand is recommended for freshness.) Apply the solution with a paint roller to thoroughly wet mold & mildew stains. Scrub the wall with a sponge. Rinse the sponge as needed in clean water. Reapply the solution as needed until all mold & mildew stains have been lightened. Rinse the surface thoroughly. A wet vacuum is recommended to help collect rinse water. Circulate air via fans continuously to help dry the walls. For commercial buildings and schools, follow appropriate guidelines for mold and mildew removal. Visit <http://www.epa.gov/iaq/molds/moldsresources.html> for details.

4.06 Repair drywall damage

Inspect drywall for damage. Tear open bubbles in the drywall facing paper and tear off loose facing paper and/or craft paper until only firmly attached paper remains. (Bubbles are most apparent when the surface is wet.) Replace sections of drywall where the gypsum core is deteriorated, loose or crumbling. Patch superficial gouges, scratches, or dents with appropriate patching material. (ZINSSER® **GARDZ**® Damaged Drywall Sealer may help speed the repair process if there is significant damage to the drywall facing paper.) Patching materials should be dry before priming.

4.07 Spot prime stains on drywall and knots on wood

Inspect drywall for stain caused by water, mold/mildew, smoke, nicotine, rust, or other contaminants. Check new wood for knots or tannin bleed. Remove as much of the staining material as possible by sanding, and then cleaning. Apply a primer/sealer to seal the stain. Use ZINSSER® Bulls Eye® Odorless Primer/Sealer, a low food source for mold and also a stain killer.

4.08 Gauging surface dryness of walls for primer coat

The first coat of **PERMA-WHITE**® can be applied to a damp but not a wet wall. If the answer to each of the following questions is 'NO', then the wall is suitable for coating:

- A) Do your fingertips appear wet after pressing them against the wall?
- B) Under good lighting conditions, does the wall surface glisten or shine due to surface dampness?
- C) Will a single ply of Kleenex tissue adhere to the surface due to moisture? (It is absolutely necessary that all adhesives be removed in order for this test to be valid.)

NB: ALWAYS TEST MULTIPLE AREAS IN ORDER TO GET A REPRESENTATIVE SAMPLE OF THE SURFACE CONDITION.

Where possible, it is recommended that a moisture meter be used to quantify the moisture level. Some property owners may insist that moisture meters be used to measure the moisture level before priming can begin. If so, the following moisture meter test procedure should be followed.

Moisture meter test procedure

Measure the moisture level of both the drywall surface and of the drywall sub-surface using a Delmhorst Moisture Meter D2100 equipped with #2941/A-100 5/16" Contact Pins. Multiple readings should be taken at multiple sites to obtain a representative sample of the total surface to be primed. Record location and reading.

Surface moisture—The surface moisture should be 2% or less before applying the paint. Determine the surface moisture by pressing the pins into but not through the facing paper on the drywall.

Sub-surface moisture—The moisture level of the gypsum core is not as immediately critical as the surface moisture in order to apply the primer. Determine the sub-surface moisture by pushing the pins fully into the drywall. The gypsum must be sufficiently dry to maintain structural integrity and not be greater than 4%.

5.00 Finishing Schedule:

	SUBSTRATE	NEW WORK PRIMER	FINISH
5.01	Previously Painted Surfaces	Non Required	2 – Coats Perma-White® Interior
5.02	Drywall Unfinished (General Areas)	Non Required	2 – Coats Perma-White® Interior
5.03	Drywall – for texture	Bulls Eye® Waterbase	2 – Coats Perma-White® Interior
5.04	Galvanized or Ferrous metal	Bulls Eye 1-2-3®	2 – Coats Perma-White® Interior
5.05	Concrete Block (Unfinished)	Acrylic or Epoxy Block Filler	2 – Coats Perma-White® Interior
5.06	Caste concrete	Bulls Eye 1-2-3®	2 – Coats Perma-White® Interior
5.07	Bleeding stains (water, mold/mildew, smoke, rust, etc)	Spot Prime with Bulls Eye® Odorless Primer/Sealer	2 – Coats Perma-White® Interior
5.08	Wood Unfinished (General Areas)	Non Required	2 – Coats Perma-White® Interior
5.09	Wood Knots	Spot Prime with Bulls Eye® Odorless Primer/Sealer	2 – Coats Perma-White® Interior

Application of **PERMA-WHITE®** Mold & Mildew-Proof* Interior Paint –

Note: All surfaces must be clean, sound and dry at time of application.

First Coat --The wall surface can be slightly damp but not wet, i.e., 2% or less on the moisture meter reading. Apply the paint by spray, brush or roller. Cut in around the edges with a brush. **PERMA-WHITE®** should be applied to no more than 350- 400 square feet per gallon. Wallboard damage will reduce the spread rate. Use fans to circulate the air following application to help the paint dry.

Second Coat -- Wait until the first coat of paint is dry (2 hours is recommended) before applying the second coat. Apply second coat to no more than 350-400 sq.ft. per gallon. Use fans to circulate the air to speed up drying and curing of the primer.

6.00 QUALITY ASSURANCE

6.01 The property owner should review this specification with all bidders.

6.02 Everyone involved with this project should carefully read this document, all attachments, and product labels prior to use or application.

6.03 Estimating Size of Surface Area:

It is the joint responsibility of the property owner and contractor to establish the total size of surface area to be covered and the minimum number of gallons of primer required to produce the required film thickness. Method of application and amount of wallboard damage should be taken into consideration when estimating spread rates. Spread rates for airless application is generally 15% less than for roller application. Add one additional square foot for every square foot of wallboard damage. **The Mold & Mildew protection corresponds directly to the application rate of PERMA-WHITE®.**

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APPENDIX A
Informational Resources Pertinent to
Preventing Mold & Mildew

GOVERNMENT RESOURCES

United States
Environmental Protection Agency
Indoor Environments Division
<http://www.epa.gov/iaq/molds/>

Canada
Health Canada
Search on: Fungal contamination in public buildings
<http://www.hc-sc.gc.ca/>

PUBLICATIONS

"Preventing Moisture and Mold & mildew Problems
in Hospitality Industry Buildings"
CH2Mhill and Disney Development Corporation
Publication can be purchased from:
AHLA - American Hotel & Lodging Association
www.ahma.com

VENDORS

Health and Environmental. Safety
3M®
3M Center, Bldg. 275-6W-01
St. Paul, MN 55133-3275
Respirator Tech. Ass't. 800-243-4630
www.3m.com/market/safety/ohes2

Environmental testing
Air Quality Sciences, Inc.
1337 Capital Circle
Atlanta, Georgia 30067
770-933-0638
www.aqs.com

Moisture Meter
Delmhorst Instrument Co.
51 Indian Lane East
P.O Box 68
Towaco, NJ 07082
(800)222-0638
email: info@delmhorst.com

For further assistance contact:
ZINSSER® Marketing Services
173 Belmont Dr.
Somerset, NJ 08875
Email: bullseye@ZINSSER.com
(888) 855-1774



This document is a SAMPLE ONLY.

A Warranty will be issued for specific projects upon request.

The ZINSSER® PERMA-WHITE Interior Paint 5-Year Mold & Mildew-Proof* Warranty

If mold and mildew causes stains on the paint film or deterioration of the paint film within Five (5) years from the date of application, ZINSSER® will furnish at no charge the quantity of paint applied to the problem area. This warranty does not cover mold and mildew that grows due to surface contamination on the surface of the paint film. Examples, mold growth on soap scum, cooking-grease residue, food or beverage spills, etc. This warranty does not include labor cost for surface preparation or coating application.

To achieve this Warranty, work must be done in compliance with the PERMA-WHITE® Interior paint label directions.

In summary, as a minimum the label directions require:

- Cleaning the surface to remove existing mold & mildew stains and dirt.
- After washing and rinsing the mold and mildewed areas, damaged areas are to be repaired and then primed.
- Application of two (2) coats of PERMA-WHITE® Mold & Mildew-Proof* Interior Paint @ 4.0 mils WFT (Wet Film Thickness) per coat / @ 1.5 mils DFT (Dry Film Thickness) per coat.

If, at any time during the warranty period, mold & mildew stains appear ZINSSER® will schedule an inspection. Upon establishing that the stains are the result of mold & mildew on the paint film ZINSSER® will furnish **a sufficient amount of PERMA-WHITE® Interior Paint to apply 2-coats to correct the problem area.**

This warranty does not cover the labor cost for the original application or any labor associated with correcting any problem areas. Nor does this warranty cover the cost of freight for delivery of replacement supplies. This warranty gives the property owner specific legal rights. Those rights may vary by state.

Performance failure resulting from or related to improper surface preparation, paint application or wallcovering installation are excluded from warranty coverage. Defects resulting from exposure to abnormal conditions--floods, hurricanes, fires, etc. are excluded from warranty coverage

If the property owner perceives a product defect or performance failure within the warranty period he/she must notify ZINSSER Co., Inc. in writing within thirty (30) days and provide ZINSSER® the opportunity to inspect the job if requested.

ZINSSER CO., Inc.
173 Belmont Drive
Somerset, NJ 08875
(732-469-8100)
Email: ZINSSERPLUS@ZINSSER.com

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173 Belmont Drive
Somerset, NJ 08875
Phone 732-469-8100

Procedure to obtain The PERMA-WHITE Mold & Mildew-Proof * Interior Paint 5-Year Limited Warranty

In order for the property owner to receive the **PERMA-WHITE** 5-Year Limited Warranty, the following procedures must be followed:

- 1) Complete the Registration form on page 12 which includes:**
 - Name and address of property where application is to be performed
 - Contact information of property owner, project manager, and contractor (TBD)
 - Expected starting date of project and warranty requirements
- 2) Fax completed form to Zinsser Commercial Department at (732) 563-9774.**
- 3) After receiving this information, a ZINSSER representative will contact the project manager to review warranty requirements and assign a project number.**

Critical requirements include:

 - Confirmation that ALL bidding contractors are being provided a complete copy of the PERMA-WHITE Specification, which includes the surface preparation procedures and material requirements.
 - Confirmation that ALL bidding contractors will initial and date each page of the specification.
 - Confirmation that a pre-project inspection by the owner or his designate, the project manager and the winning contractor will be performed to insure the integrity of the surface where the PERMA-WHITE Paint System is to be applied. Refer to Section 1.03 in the PERMA-WHITE Specification (Limitations).
 - Confirmation that the project manager will perform periodic inspections during the application to insure the specification is being followed by the winning contractor.
 - Upon completion of the job, the Project Manager will provide Zinsser with an executed verification form complete with original invoices for materials used on the project

Receipt of Project Verification Form and original invoices are required within 30 days of completion of project to activate warranty coverage. The property owner will receive a registered copy of the limited warranty upon receipt of the verification form and supporting documents.

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173 Belmont Drive
Somerset, NJ 08875
Phone 732-469-8100

Registration #
*This number will be assigned by
Zinsser after registration interview
is conducted.*

The PERMA-WHITE Project Registration Form

Instructions:

In order to register your project for the **PERMA-WHITE** 5-Year Limited Warranty, please read and complete the following information. Please fax this completed form to **Zinsser Commercial Department @ 732-563-9774**.

Date: _____

Name and address of the property where the installation is to be performed:

Project Name _____, Property Address _____,

Floor or Suite _____, City _____, State _____, Zip _____

Contact information of property owner:

Contact Person _____, Email Address _____,

Property Owner _____, Mailing Address _____,

City _____, State _____, Zip _____, Phone _____

Contact information for the project manager:

Contact Person _____, Email Address _____,

Company _____, Mailing Address _____,

City _____, State _____, Zip _____, Phone _____

Contact information for the contractor (when available):

Contact Person _____, Email Address _____,

Company _____, Mailing Address _____,

City _____, State _____, Zip _____, Phone _____

Contact information for the contractor (when available):

Expected starting date of project: _____

I understand and agree that in order for the property owner to receive the 5 Year Limited Warranty,

- ALL bidding contractors must be provided a complete copy of the PERMA-WHITE Mold & Mildew-Proof* Interior Paint Specification, which includes the surface preparation procedures and material requirements.
- ALL bidding contractors must initial and date each page of the specification.
- A pre-project inspection must be conducted by the owner or his designate, the project manager and the winning contractor to insure the integrity of the surface where the PERMA-WHITE Paint System is to be applied. Refer to Section 1.03 in the PERMA-WHITE Specification (Limitations).
- The project manager is required to perform periodic inspections during the installation to insure the specification is being followed by the winning contractor.
- The project manager must supply Zinsser with an executed verification form complete with original invoices for materials used on the job within 30 days of completion of the project.

Project Manager signature and date: _____, _____
Project Manager Date



Project Number _____

The PERMA-WHITE Mold & Mildew-Proof* Interior Paint Project Verification Form

I, _____, the project manager for _____ (project name) hereby certify that I fulfilled all the required procedures as agreed to on the **PERMA-WHITE** Project Registration form dated _____. I am enclosing the original invoices for the materials used on the job that was completed on _____.

I understand that upon receipt of this project verification form and corresponding invoices, Zinsser will issue the **PERMA-WHITE** 5-Year Limited Warranty directly to the property owner.

Signature _____

Date _____

Mail Project Verification Form and Original Invoices to:
ZINSSER Co., Inc., Commercial Department, 173 Belmont Drive, Somerset, NJ 08875

Questions? Contact the Commercial Department @ 732-469-8100

ZINSSER Co., Inc.

173 Belmont Drive, Somerset NJ 08875

An RPM Company

11/03

PERMA-WHITE[®] Mold & Mildew-Proof* Interior Paint

A high performance acrylic interior paint uniquely formulated to beautify and protect interior surfaces while preventing mold & mildew growth on the paint film for FIVE YEARS. **PERMA-WHITE[®]** passes severe ASTM 5590 and 3273 tests even when subjected to combined strains of mold & mildew spores. **PERMA-WHITE[®]** produces a tough, durable, washable finish that withstands moisture and resists dirt pickup – key conditions that promote mold & mildew growth on the paint film and eventually cause paint failure. Ideal for Commercial, Industrial, or IAQ Remediation jobs as well as for Residential use.

Selection Data

Generic Type – Latex acrylic resin, water-base, interior finish paint. Available in eggshell, satin and semi-gloss sheens.

Performance Characteristics

- Mold & Mildew-Proof* paint film guaranteed for 5 years
- Antimicrobial – inhibits the growth of odor causing microbes on the paint film (does not protect against food borne or disease-causing bacteria).
- Self-priming – bonds to glossy and hard-to-paint surfaces
- Easy application properties, high hide, great touch-up
- Durable – washable, moisture resistant finish
- Tintable to a wide variety of colors
- Low odor, fast drying – recoat in 2 hours
- Soap and water cleanup

Recommended Uses – For application to interior walls, wall cavities, ceilings, trim, doors, and related paintable surfaces. Ideal for bathrooms, basements, kitchens, laundry rooms, closets, locker rooms, hot tub rooms, enclosed porches and pool areas or any interior where mold & mildew is a concern. Great for institutional or commercial use in schools, hospitals, hotels, nursing homes, restaurants, athletic facilities, etc.

Color/Tinting – **PERMA-WHITE[®]** is bright white but may be tinted to off-white, pastel or medium colors with a maximum of 4 oz. (118 ml) universal colorants per gallon. Start with 75% of the tinting formula for a given color and adjust if necessary.

Coverage – A single coat applied at 1.5 mils dried film thickness (DFT) covers approximately 400 sq. ft. (37m²) per gallon. Coverage may vary with the porosity of the surface and the method of application.

Application Data

Application Requirements – 2 coats are required for proper performance and mold & mildew-resistance.

Surfaces – Recommended for interior use on new or previously painted gypsum drywall, cured plaster, wood, cement, poured concrete and stucco; concrete block; ceramic tile; primed or previously painted metal; vinyl paneling; aluminum; rigid, paintable plastics, laminates, and other paintable surfaces.

PERMA-WHITE[®] will adhere to gloss or semi-gloss paints, existing wallcoverings, ceramic tile and similar glossy surfaces without prior sanding.

Damp Surfaces – **PERMA-WHITE[®]** may be applied over damp masonry walls but is not designed to stop active water leaks. Use **WATERTITE[®]** Mold & Mildew-Proof* Waterproofing Paint for masonry prone to water intrusion.

PERMA-WHITE[®] may be used over any quality waterproofing paint to prevent mold and mildew growth on the paint film.

Surface Preparation

Surfaces must be clean, sound and free of dirt, dust, grease, wax, wallcovering adhesive, soap film, loose paint or other surface contamination. **Remove all existing mold and mildew before painting. If you are concerned about mold and mildew behind walls, underneath flooring, in ventilation systems or other unseen areas, contact a professional who specializes in mold and mildew remediation. For commercial buildings and schools follow appropriate guidelines for mold removal.** Clean surfaces with a solution of one cup household bleach per gallon of water or a quality biocidal wash.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Stains – Rust, tannin, grease, mold & mildew and other stains should be blocked with the appropriate stain killing primer-sealer such as B-I-N[®] or Bulls Eye[®] Odorless. When priming over stained areas, first attempt to remove as much of the stain as possible by washing, sanding, scraping, etc.

Application

Shake or stir well before using. Apply with synthetic bristle brush, roller, pad applicator or sprayer. For airless spraying, use a .017 tip and high medium (2000-2600 PSI) pressure. Apply when air and surface temperatures are between 50° and 90° F (10° and 32°C) and humidity is less than 80%. **PERMA-WHITE[®]** is designed to be used as is. If thinning is necessary (such as with conventional sprayer applications), use only water and no more than 10% by volume (approx. 12 oz/gallon).

Dry Time - Dries in 2 hours. Apply second coat 2 hours or longer after the first. Scrape-resistance over glossy surfaces develops in 5 to 7 days as **PERMA-WHITE[®]** cures. If used above tile on shower walls, wait at least 24 hours before using shower. Do not scrub the new coating for seven days.



Cleanup – Clean up spills and drips with a wet cloth or rag. Wash application tools in warm, soapy water immediately after use. If product has dried on application tool, soak it overnight in a solution of equal parts household ammonia and water. Follow manufacturer’s instructions when cleaning spray equipment.

Disposal – Dispose of unused or unwanted product in accordance with local laws regulating water-base coatings.

Typical Physical Properties

Solids by Weight 57% (E), 54% (S), 51% (SG)
Solids by Volume 41% (E), 38% (S), 38% (SG)
Weight (lb./gallon) 11.6 (E), 11.9 (S), 10.6 (SG)
Required Number of Coats Two
Spread Rate 4.0 mils WFT per coat
 1.5 mils DFT per coat

Theoretical Coverage @ 1.5 mils:
Smooth Surface 400 sq. ft./gallon
Brush or Roller Application 350 sq. ft./gallon
Airless Sprayer 300 sq. ft./gallon
VOC Less than 150 gr/liter
Flashpoint (Setaflash) >200° F (>93.3° C)
Perm Rating 4.3 (E), 4.5 (S), 4.5 (SG)
Dry to touch @ 70° F (21° C) 30 minutes
Dry to recoat @ 70° F (21° C) 2 hours
Cure Time 7 to 10 days

Gloss/Sheen Levels (2 coats): **60°** **85°**
 Eggshell 5-8% 15-20%
 Satin 13-23% 47-52%
 Semi-Gloss 45-55% 80-85%

Shelf Life 60 mos. @ 75° F (24° C)
Storage/Handling Store indoors
 40° – 80° F (4° – 26° C)
 Freeze/thaw stable

Limitations

PERMA-WHITE® Mold & Mildew-Proof* Interior Paint is not intended for application to floors or any surface subject to water immersion or prolonged contact with water including shower enclosures, saunas or steam rooms. Not recommended for use in HVAC duct work.

Precautions

Safety: CAUTION! May cause eye irritation. Avoid contact with eyes. In case of eye contact, flush eyes with plenty of water for at least 15 minutes. Do not take internally. If swallowed call a physician or Poison Control Center. Use with adequate ventilation. If frozen let thaw at room temperature. **KEEP OUT OF REACH OF CHILDREN.**

Storage: To prevent product from skinning over close container after each use. Keep lid tightly closed during storage. Protect from freezing. If contents freeze, thaw to room temperature before using.

NOTE: PERMA-WHITE® is formulated with a mildewcide approved for paint use and does not contain mercury or lead compounds.

Warranty

PERMA-WHITE® Mold & Mildew-Proof* Interior Paint is guaranteed for five years from the date of application to provide protection of the dried paint film from mildew when 2 coats are applied according to the label directions. Application of other paints over **PERMA-WHITE®** nullifies the warranty. The contents are warranted to be free of defects for two years from date of manufacture. All warranties and guarantees are limited to replacement or refund value of product actually used when supported by proof of purchase. Directions are as complete as possible but cannot encompass all conditions, applications and/or surfaces beyond our control. If you have a question, check with dealer or call ZINSSER Co., Inc. No other warranty or guarantee is expressed or implied.

Packaging and Shipping Information

PERMA-WHITE Eggshell Finish

Unit Size	Code	Product UPC	Carton Code	Harmonized Code	Hazmat Code	Case Pack	Case Wt. Lbs.	Dimensions	Case Vol. In.	Pallet Pack	Pallet Size
5 gal	02770	0-47719-02770-6	N/A	3209.90.0000 4	N/A	1	63	12" x 12" x 15"	1,935	36 pails	48 x 36
1 gal	02771	0-47719-02771-3	4-00-47719-02771-1			2	26	14" x 7 1/4" x 7 3/4"	786	90 cs	42 x 42
1 qt	02774	0-47719-02774-4	6-00-47719-02774-6			6	21	13" x 8 3/4" x 5 1/4"	597	112 cs	42 x 42

PERMA-WHITE Satin Finish

Unit Size	Code	Product UPC	Carton Code	Harmonized Code	Hazmat Code	Case Pack	Case Wt. Lbs.	Dimensions	Case Vol. In.	Pallet Pack	Pallet Size
5 gal	02700	0-47719-02700-3	N/A	3209.90.0000 4	N/A	1	63	12" x 12" x 15"	1,935	36 pails	48 x 36
1 gal	02711	0-47719-02711-9	3-00-47719-02711-0			2	26	14" x 7 1/4" x 7 3/4"	786	90 cs	42 x 42
1 qt	02704	0-47719-02704-1	3-00-47719-02704-2			6	21	13" x 8 3/4" x 5 1/4"	597	112 cs	42 x 42

PERMA-WHITE Semi-Gloss Finish

Unit Size	Code	Product UPC	Carton Code	Harmonized Code	Hazmat Code	Case Pack	Case Wt. Lbs.	Dimensions	Case Vol. In.	Pallet Pack	Pallet Size
5 gal	02750	0-47719-02750-8	N/A	3209.90.0000 4	N/A	1	63	12" x 12" x 15"	1,935	36 pails	48 x 36
1 gal	02761	0-47719-02761-4	3-00-47719-02761-5			2	26	14" x 7 1/4" x 7 3/4"	786	90 cs	42 x 42
1 qt	02754	0-47719-02754-6	3-00-47719-02754-7			6	21	13" x 8 3/4" x 5 1/4"	597	112 cs	42 x 42

ZINSSER Co., Inc. 173 Belmont Drive Somerset, NJ 08875 (732) 469-8100 www.zinsser.com

Read and carefully follow all information on this technical data bulletin, on the product label, and on the material safety data sheet for this product. To the best of our knowledge the data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact ZINSSER Co., Inc. to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Zinsser quality control and assume no responsibility for coverage, performance, or injuries from 15. Visit Zinsser.com for our most up-to-date technical data bulletins.