

# SPECIFICATION & WARRANTY INFORMATION FOR THE ZINSSER PLUS MOLD & MILDEW-PROOF™\* COMMERCIAL WALLCOVERING SYSTEM

*Details of our five-year  
mold & mildew-proof™\* warranty  
and how to register*



*\*Shieldz® Universal PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Primer contains a mildewcide that prevents growth of mold and mildew on the primer film only.*

*\*SureGrip® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Adhesive contains a mildewcide that prevents growth of mold and mildew on the adhesive only.*

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*The information and recommendations provided in this document reflect ZINSSER's best knowledge on the publication date of this document – August 15, 2007. ZINSSER may revise these recommendations without giving notice to document holders. **Contact ZINSSER's Commercial Department (732-469-8100) to determine whether revisions have been made before implementing the recommendations contained in this document.***

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# The ZINSSER PLUS Mold & Mildew-Proof™\* Commercial Wallcovering System

## I N T R O D U C T I O N

Mold and 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. Poor ventilation and excessive moisture/humidity help the mold and mildew to grow. The EPA maintains that the key to mold control is moisture control. Unless the moisture/water problem is fixed, the mold will keep returning.

Owners of commercial property--hotels, restaurants, nursing homes, etc., benefit from decorating with vinyl wallcoverings because of its durability and beauty. Although the vinyl wallcovering does not cause mold and mildew, in some cases installations of vinyl wallcovering gives rise to an undesirable consequence, i.e., mold and mildew growing under the wallcovering.

Mold and mildew can occur wherever air-conditioned buildings draw warm, moist air in through exterior walls. Moisture-laden air condenses when it hits the underside of the vinyl wallcovering. Combined with the use of an ordinary adhesive to install the wallcovering, this will create the ideal conditions for mold growth. Mold and mildew growth underneath commercial wallcovering creates several undesirable consequences: musty odors, unsightly stains and the loss of adhesion of the wallcovering.

The first and best means to avoid mold and 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. Stop using vinyl wallcovering
- C. Modify HVAC and correct structural defects to reduce moisture intrusion
- D. Control the problem by using **mold and mildew-proof\*** building materials

The **ZINSSER PLUS Mold & Mildew-Proof™\* Commercial Wallcovering System** supports option C and D --controlling the problem by modifying the structural defects to reduce/eliminate moisture intrusion and using mold and mildew resistant building materials. The **ZINSSER PLUS System** is a two-part system consisting of **Shieldz® Universal PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Primer** and **SureGrip® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Adhesive**.

It is recognized that ordinary primers and adhesives provide a rich food source for mold and mildew and when combined with higher moisture levels foster fast growth of mold and mildew. **Results of laboratory tests and long-term field trials support the conclusion that the use of the ZINSSER PLUS System provides the property owner a method to continue using wallcovering without experiencing chronic adhesion problems and staining caused by mold and mildew, for at least 5 years, guaranteed.**

This specification describes the procedure through which property owners may receive **The ZINSSER PLUS Mold & Mildew-Proof™\* Commercial Wallcovering 5-Year Warranty**.

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# The ZINSSER PLUS Mold & Mildew-Proof™\* Commercial Wallcovering SPECIFICATION

## 1.00 SCOPE

- 1.01 This specification defines a system to prevent staining and loss of adhesion of vinyl wallcovering caused by mold growth under the wallcovering. In addition, the **ZINSSER PLUS** system reduces the growth of odor causing microbes under the vinyl wallcovering.

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

- 1.02 Terminology:

**Mold and 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** - is used synonymously with mold and mildew.

**Mold and mildew stain** - stains or discoloration caused by fungi under the wallcovering that are visible without removing the wallcovering.

**Loss of adhesion** - the wallcovering becomes detached from the substrate. This type of failure can generally be described as peeling, lifting, curling or bubbling and is the direct result of mold destroying the cohesive properties of the adhesive or primer.

- 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 and mildew growth behind wallcovering is to eliminate sources of moisture through building design, construction and maintenance.

The scope of this specification does not encompass requirements for fungal 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 exist under vinyl wallcovering 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. (See Appendix A for helpful resources).

The scope of this specification does not encompass or ensure compatibility with all wallcovering types. Before proceeding with installation, testing as outlined in section 6.04 Quality Assurance on page 10 should be completed and approved by the Property Owner, Architect or person(s) responsible for final approval of the installation, otherwise known as the "Responsible Party".

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This system will not prevent damage or deterioration to substrates and materials under the primer 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 and mildew growth other than on the wallcovering primer film or the wallcovering adhesive film.

#### 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 the remediation of mold contamination.

2.02 All cleaners (including bleach), patching compounds, primers, adhesives and wallcoverings 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, hanging instructions, etc., shall be followed.

2.03 **Shieldz® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Primer** must be used as part of the system to prepare walls. **Two coats must be applied to qualify for the warranty.** Each coat should be applied at 4 mil wet. A 1.5 mil dry-film-thickness (DFT) per coat is required resulting in a total of 3.0 mil DFT after two coats. Approximate coverage is 300-350 sq. ft. per gallon per coat. Spread rate may be reduced depending on the porosity of the surface.

2.04 **SureGrip® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Adhesive** must be used as part of the system to install new wallcovering. **DO NOT DILUTE.** Whip, stir or shake to desired consistency for use in a pasting machine. Use a separate pail if applying adhesive by roller and store balance of undiluted adhesive in original pail with the original lid secured. Adhesive applicators—rollers, brushes and paste machines must be cleaned daily to prevent contamination or spoilage. Adhesive spread rate may vary with wall surface and type of wallcovering. On average, a five-gallon pail of adhesive will hang up to 1400 sq. ft. or 110 linear yards of 54" wallcovering.

2.05 All procedures recommended by the product manufacturer 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.

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### 3.00 **MATERIALS**

For information on “Where to Buy” Zinsser products, please call Zinsser toll-free at (888) 855-1774 or visit [www.zinsser.com](http://www.zinsser.com) to locate a supply source near you.

- 3.01 **Shieldz® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Primer**  
Product # 03200, Mfr. ZINSSER Co. Inc., 173 Belmont Dr., Somerset, NJ 08875
- 3.02 **SureGrip® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Adhesive**  
Product # 02850, Mfr. ZINSSER Co. Inc., 173 Belmont Dr., Somerset, NJ 08875
- 3.03 **DIF® GEL Wallpaper Stripper**  
Product # 02431, Mfr. ZINSSER Co. Inc., 173 Belmont Dr., Somerset, NJ 08875
- 3.04 **DIF® Fast-Acting Wallpaper Stripper**  
Product # 02481, Mfr. ZINSSER Co. Inc., 173 Belmont Dr., Somerset, NJ 08875
- 3.05 **DIF® Liquid Concentrate Wallpaper Stripper**  
Product # 02422, Mfr. ZINSSER Co. Inc., 173 Belmont Dr., Somerset, NJ 08875
- 3.06 **GARDZ® High Performance Sealer**  
Product # 02301, Mfr. ZINSSER Co. Inc., 173 Belmont Dr., Somerset, NJ 08875
- 3.07 **Perma-Wash™ Disinfectant & Fungicide Interior Concentrate**  
Product # 60601 gallon, # 60600 5-gallon, Mfr. ZINSSER Co. Inc., 173 Belmont Dr., Somerset, NJ 08875
- 3.08 **Clorox® Ultra Bleach** – Mfr. The Clorox Company, Pleasanton, CA 94566-0803
- 3.09 **Wallcovering Manufacturer** – (to be specified by property owner)
- 3.10 **Moisture Meter** – Mfr. Delmhorst Instrument Co., 51 Indian Lane East, P. O. Box 68, Towaco, NJ 07082, (800) 222-0638

### **WORK REQUIREMENTS**

#### 4.00 Site preparation:

The property owner will remove and store all furniture, fixtures, 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 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.

#### 4.01 Ventilation:

Removal of wallcovering with mold under it will 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.

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4.02 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 B for resources for respirators.)

4.03 Remove wallcovering:

Dry strip vinyl wallcovering by pulling it from the top down leaving the bottom six inches attached to the wall. Fold the pasted side of the wallcovering in on itself to capture and retain as much particulate as possible. Place the rolled material on the floor while the bottom portion is still attached. This provides a catch basin while cleaning.

4.04 Clean the wall:

Using a vacuum with a wall-brush attachment, vacuum the wall surface while agitating the surface with the brush. (The vacuum exhaust must pass through a HEPA filter.) Effort spent cleaning with the vacuum will save time cleaning with liquid solutions. If the wall is heavily contaminated with mold and mildew, old adhesive and/or failing paint, etc., one worker should use a pole-sander with a dry, coarse, Scotch-Brite® pad to loosen the material and another worker follow close behind vacuuming up dislodged materials. Vacuum the backside of the wallcovering on the floor used as a catch basin.

4.05 Removal of residual adhesive, mold and mildew and stains:

Note: Where mist or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices. A NIOSH approved respirator is advised. For sensitive skin wear gloves.

Step one – Remove residual wallcovering adhesive using either **DIF GEL**, **DIF Fast-Acting** or **DIF Liquid Concentrate Wallpaper Stripper**.

When using **DIF GEL** or **DIF Fast-Acting**, apply liberally using a paint roller. Allow to stay on the surface undisturbed for a minimum of 20 minutes. Avoid back-rolling. Scrape-off residual adhesive. Reapply **DIF GEL** or **DIF Fast-Acting** to stubborn areas. Rinse the surface with a sponge and clean water.

When using **DIF Liquid Concentrate** begin by mixing the solution per label directions. Thoroughly wet the wall by applying the solution with a paint roller or commercial low-pressure sprayer. Scrub the wall with a sponge. Rinse the sponge as needed in clean water. Reapply the solution as needed until all heavy soil and adhesive have been removed.

Step two – Remove mold and mildew

Apply a solution of either: 1) **Perma-Wash Concentrate** (odorless, non-staining, non-damaging), or 2) Clorox Ultra Household Bleach as follows:

For **Perma-Wash**, mix a solution of 1 part **Perma-Wash Concentrate** with 4 parts water. Apply the solution with low-pressure commercial sprayer or paint roller to thoroughly wet mold and mildew. Allow treated area to sit at least 10 minutes. Scrub the wall with a sponge rinsed in clean water. Rinse wall in clean water. Re-apply Perma-Wash solution. Make sure the treated area is thoroughly wet for at least 10 minutes with **Perma-Wash** solution and allow to air dry.

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Refer to the **Perma-Wash Concentrate** Technical Data Bulletin on page 21-22 of this document for additional application criteria.

For Clorox®, mix a solution of 3/4 cup Clorox® Ultra Household Bleach with one gallon of clean water. (Bleach has a shelf-life. Use fresh bleach less than 1 year old. Use of Clorox® brand is recommended for freshness.) Apply bleach solution with a paint roller to thoroughly wet mold and mildew. Scrub the wall with a sponge. Rinse the sponge as needed in clean water. Re-apply solution as needed. Avoid contact with clothing, carpet, fabric. Rinse all vinyl and rubber surfaces immediately after use. Avoid prolonged contact with metal or porcelain. Do not use on or around marble or aluminum. Rinse the wall surfaces with clean water. Allow to air dry.

Using the vacuum in wet mode, vacuum as much moisture from the wall and the catch-basin as possible. Circulate air via fans continuously to help dry the walls.

Step three - Remove wallcovering attached at the bottom of the wall. Bag old wallcovering and trash in heavy trash bags for disposal. Repeat steps one and two to remove residual adhesive and mold and mildew from bottom of wall.

#### 4.06 Gauge the surface moisture before applying skim coatings and primer coatings:

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 primer. 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%.

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4.07 Inspect the walls for drywall damage and repair:

Inspect the walls for damage. Sand loose, peeling facing paper. Tear open bubbles in the drywall facing paper and tear off loose facing paper until only firmly attached paper remains. (Bubbles may be most apparent when the surface is wet.) Replace sections of drywall where the gypsum core is deteriorated, loose or crumbling. Prior to skim coating damaged areas, use **GARDZ® High Performance Sealer** to seal down damaged drywall facing paper. Patch with appropriate patching material. After dried skim coats have been sanded, re-apply **GARDZ** to seal skim coats and reduce potential for out-gassing) **Patching materials must be dry and fully cured before sealing.**

Refer to the **GARDZ** Technical Data Bulletin on page 23-24 of this document for additional application and coverage criteria.

**Note: When inspecting the walls for drywall damage, and the mold is severe, particularly in a concentrated area such as around sweating pipes, concrete pillars, air returns, leaks; we recommend that the drywall be replaced in those areas. When the drywall is down, the area should be examined for the source of moisture and the problem resolved.**

4.08 Prime the walls:

**Two coats of Shieldz PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Primer are required to receive the ZINSSER PLUS warranty.**

First Prime Coat --The wall surface should be dry and free of all contaminates. The entire wall surface upon which wallcovering is to be applied must be primed with **Shieldz® PLUS**. Apply the primer to the entire surface area by spray, brush or roller. Cut in around the edges, ceilings, base of wall, corners and openings with a brush. One gallon of primer should be applied to no more than 350 square feet at 4 mil wet. **The goal is to produce a continuous, pin-hole free film with a minimum dry-film-thickness (DFT) of 1.5 mils per coat.** Damaged wallboard will reduce the spread rate.

Second Prime Coat -- Wait until the first coat of primer is completely dry (under normal conditions 2 hours) before applying the second coat. Touch-up visible pin-holes or holidays with a brush. **Total DFT should be 3 mils after two coats are applied.**

Refer to the **Shieldz PLUS** Technical Data Bulletin on page 17-18 of this document for additional application and coverage criteria.

5.00 Hang wallcovering:

Environmental & Lighting Conditions: Areas to receive wallcovering should be environmentally controlled by the HVAC system. A temperature range of 65° - 85° degrees Fahrenheit should be maintained, with less than 50% relative humidity, for a period of not less than 4 days prior to installation and maintained thereafter. Install wallcovering with permanent lighting. Sufficient lighting will greatly enable the installer to see the air pockets, bubbles and surface imperfections.

Test installation area: Before proceeding with installation, Property Owner, Architect or Responsible Party should approve test installation area as outlined in 6.04 on page 10 herein.

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Walls are ready to hang in 2 hours after primer coat. **When double-cutting, wait 8 hours before hanging wallcovering after second coat of primer has been applied. Double-cut within 1 hour of hanging.** Wallcovering manufacturer's hanging instructions must be followed.

Use full strength **SureGrip® PLUS Mold & Mildew-Proof™\*** **Commercial Wallcovering Adhesive.** DO NOT DILUTE. Whip, stir or shake to desired consistency. Thoroughly mix adhesive to achieve a complete blending of the entire contents of each bucket. Do not add water to trough in pasting machine. Whipping adhesive will thin to desired consistency for use in a pasting machine. Each pail of adhesive should be used within 24 hours after opening to minimize contamination. Adhesive applicators--rollers, brushes and paste machines must be cleaned daily to prevent contamination or spoilage.

Refer to the **SureGrip PLUS** Technical Data Bulletin on page 19-20 of this document for additional application and coverage criteria.

## 6.00 **QUALITY ASSURANCE**

6.01 The property owner should review and supply a copy of this specification to 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 and mildew protection corresponds directly to the application rate of the primer.**

6.04 BEFORE PROCEEDING WITH THE INSTALLATION...At no additional costs to the owner, the wallcovering installation Contractor shall prepare primed surface in specified test area and install no less than three (3) full-width panels of each wallcovering pattern specified in an area designated by the Property Owner, Architect or Responsible Party leaving a section of primed surface uncovered for inspection. The test installation area shall be reviewed for conformance to the ZINSSER PLUS Specification and application should be in compliance with all product technical data bulletins. The wallcovering should be allowed to bond with the wall for a minimum of three days before inspecting.

Only the Property Owner, Architect or Responsible Party shall approve the primer coverage and wallcovering installation in test area. The Contractor will replace any unsatisfactory panels. The approved test area shall remain as part of the finished installation work and as a standard of comparison for the installation throughout the project. The Contractor shall not install specified material beyond the test area, prior to the approval of the test area, by the Property Owner, Architect or Responsible Party.

Then, upon approval of the installation by the Property Owner, Architect or Responsible Party should Contractor and/or Installer proceed to complete the job. If a problem occurs, stop and contact your local Zinsser product source or Zinsser sales representative. Proceeding beyond this point will be done at the Property Owner's, Architect's, Responsible Party's, Contractor's and Installer's risk and will absolve ZINSSER Co., Inc., the product distributor and the wallcovering manufacturer of all responsibility.

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The ZINSSER PLUS Mold & Mildew-Proof™\*  
Commercial Wallcovering System

REPAIR & INSTALLATION SEQUENCE QUICK REFERENCE GUIDE  
(Apply according to instructions in ZINSSER PLUS Specification)

**Repair and Mold & Mildew Remediation Sequence**

- Strip wallcovering (4.04-4:05): Strip wallcovering and vacuum gross mold & mildew with Hepa filter vacuum.
- Remove residual adhesive: (4.06) Remove with **DIF GEL**, **DIF Fast-Acting** or **DIF Concentrate Wallpaper Stripper**
- Remove mold & mildew: (4.06) Treat with solution of **Perma-Wash™ Disinfectant & Fungicide Interior Concentrate** or Clorox® Ultra Household Bleach (after residual adhesive has been removed from surface)
- Check for moisture: (4.07) Conduct a thorough investigation of all areas where moisture may collect and support fungal contamination and correct each situation.
- Repair damaged drywall: (4.08) Seal down torn, damaged drywall with **GARDZ High Performance Sealer**. Skim coat and re-apply **GARDZ** over dried, fully cured, sanded skim-coats to reduce/prevent out-gassing

**Decorative Treatment**

- Prepare test area: (6.04) Apply three sheets of wallcovering using **SureGrip PLUS** adhesive in test area prepared with 2 coats of **Shieldz PLUS**. Property Owner, Architect or Responsible Party must approve primer coat and wallcovering installation before proceeding with completion of job.
- Prime surface: 4.09) Apply two pin-hole-free coats of **Shieldz PLUS** primer (4 mil wet per coat resulting in total of 3.0 mil dry-film-thickness)
- Apply adhesive: (4.10) Apply full strength **SureGrip PLUS** adhesive to back of wallcovering. DO NOT DILUTE. Whip, stir or shake to desired consistency.

**Product Order Info:**

Product	Size	Item No.
Shieldz PLUS WC Primer	5-gallon	03200
SureGrip PLUS WC Adhesive	5-gallon	02850
GARDZ High Performance Sealer	5-gallon	02300
Perma-Wash Fung. & Disf. Conc.	5-gallon	60600
DIF GEL Wallpaper Stripper	1-gallon	02431
DIF Fast-Acting Wallpaper Stripper	1-gallon	02481
DIF Conc. Wallpaper Stripper	1-gallon	02422

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## Informational Resources Pertinent to Preventing Mold & Mildew

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### GOVERNMENT RESOURCES

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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/index\\_e.html](http://www.hc-sc.gc.ca/index_e.html)

### PUBLICATIONS

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"Preventing Moisture and Mildew Problems in  
Hospitality Industry Buildings"  
CH2Mhill and Disney Development Corporation  
Publication can be purchased from:  
AHLA - American Hotel & Lodging Association  
[www.ahma.com](http://www.ahma.com)

Wallcoverings Association  
Phone: 312-644-6610  
Click: Contract Wallcoverings>What's New>Mold  
Publication  
<http://www.wallcoverings.org/>

### VENDORS

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*Health and Environmental. Safety*  
3M  
3M Center, Bldg. 275-6W-01  
St. Paul, MN 55133-3275  
Phone: Respirator Tech. Ass't. 800-243-4630  
[www.3m.com/market/safety/ohes2](http://www.3m.com/market/safety/ohes2)

*Environmental testing*  
Air Quality Sciences, Inc.  
1337 Capital Circle  
Atlanta, Georgia 30067  
Phone: 770-933-0638  
[www.aqs.com](http://www.aqs.com)

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

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For further assistance contact:  
**ZINSSER** Commercial Department  
173 Belmont Dr.  
Somerset, NJ 08875  
Email: [zinsserplus@ZINSSER.com](mailto:zinsserplus@ZINSSER.com)  
(732) 469-8100

**The property owner will receive a registered copy of this warranty as soon as the FINAL verification form is received.**

**The ZINSSER PLUS Mold & Mildew-Proof™\*  
Commercial Wallcovering  
5-Year Warranty**



Installations of commercial wallcovering performed in accordance with The ZINSSER PLUS Commercial Wallcovering Specification are eligible for the following:

**The ZINSSER PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Warranty**

"If mold and mildew on the primer film or adhesive causes stains to appear through the wallcovering or causes the wallcovering to lose its adhesion within Five (5) years from the date of installation, ZINSSER will replace the primer, adhesive and wallcovering in the problem area. This Warranty does not include topical mold and mildew on the wallcovering, which should be removed by cleaning. This Warranty does not cover any labor costs associated with removal of existing wallcovering, remediation of mold and mildew and/or re-installation of new wallcovering."

To achieve this Warranty, the wallcovering installation must be done in compliance with the **ZINSSER® PLUS** Specification provided by ZINSSER and for the specific project.

**In summary, as a minimum the Specification requires:**

- o Cleaning the surface to remove existing mold and mildew stains and residual adhesive.
- o After washing and rinsing the mold and mildewed area, damaged areas are to be repaired and then primed.
- o Application of two (2) coats of **SHIELDZ® Universal PLUS Mold & Mildew-Proof™\* Wallcovering Primer @ 1.5 mil Dry Film Thickness per coat.**
- o Installation of the wallcovering using **SUREGRIP® PLUS Mold & Mildew-Proof™\* Wallcovering Adhesive.**

If, at any time during the 5-Year period, the wallcovering loses adhesion or stains appear, ZINSSER Co. Inc. will schedule an inspection. Upon establishing that the loss of adhesion or stains are the result of mold and mildew in the primer or paste, ZINSSER will furnish **a sufficient amount of primer, paste and wallcovering to correct the problem area.**

This Warranty does not cover the labor cost for the original wallcovering installation or any labor associated with correcting any problem areas or 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 leaks, improper surface preparation, primer 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 of first noticing the problem and provide ZINSSER the opportunity to inspect the job.

*\*Shieldz® Universal PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Primer contains a mildewcide that prevents growth of mold and mildew on the primer film only.*

*\*SureGrip® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Adhesive contains a mildewcide that prevents growth of mold and mildew on the adhesive only.*

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

Email: [Bullseye@ZINSSER.com](mailto:Bullseye@ZINSSER.com)



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

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

## **Procedure to obtain The ZINSSER PLUS Mold & Mildew-Proof™\* Commercial Wallcovering 5-Year Limited Warranty**

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

- 1) Complete the REGISTRATION FORM on page 13 which includes:**
  - Name and address of property where the installation 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 ZINSSER PLUS 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 Property Owner, his Designate or Responsible Party, the Project Manager and the winning Contractor will be performed to insure: a) the integrity of the surface where the ZINSSER PLUS System is to be applied, b) the primer, adhesive and wallcovering installation in specified test area is applied according to the Zinsser Plus specification, and c) the installation in specified test area meets aesthetic appearance requirements of Property Owner. Refer to Section 1.03 (Limitations) and Section 6.04 (Quality Assurance) in the ZINSSER PLUS Specification.
  - Confirmation that the Project Manager will perform periodic inspections during the installation 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, i.e. DIF®, Perma-Wash™, bleach, Gardz®, Shieldz® PLUS Primer, SureGrip® PLUS Adhesive and wallcovering).

***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.***

**\*Shieldz® Universal PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Primer** contains a mildewcide that prevents growth of mold and mildew on the primer film only.

**\*SureGrip® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Adhesive** contains a mildewcide that prevents growth of mold and mildew on the adhesive only.



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

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

## The ZINSSER PLUS Project REGISTRATION FORM

### Instructions:

In order to register your project for the **ZINSSER PLUS 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 \_\_\_\_\_

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 ZINSSER PLUS 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 of the surfaces where wallcovering is to be applied and a specified area where wallcovering has been applied using the Zinsser Plus system must be conducted by the Property Owner, his Designate or Responsible Party, the Project Manager and the winning Contractor to insure: a) the integrity of the surface where the ZINSSER PLUS System is to be applied, and b) that wall prep and application of primer, adhesive and wallcovering has been installed properly according to the Zinsser Plus specification. Refer to Section 1.03 (Limitations) and 6.04 (Quality Assurance) in the Zinsser Plus specification.
- 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 (bleach, primer, adhesive and wallcovering), within 30 days of completion of the project.

Project Manager signature and date: \_\_\_\_\_  
Project Manager Date



Project Number \_\_\_\_\_

## The ZINSSER PLUS Project VERIFICATION FORM

I, \_\_\_\_\_, the Project Manager for \_\_\_\_\_  
(project name) hereby certify that I fulfilled all the required procedures as agreed to on the  
ZINSSER PLUS 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 ZINSSER PLUS 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



## MOLD & MILDEW-PROOF™\* COMMERCIAL WALLCOVERING PRIMER

Shieldz® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Primer is a high performance primer developed for demanding commercial wallcovering applications where mold and mildew is a concern. Formulated with Zinsser's exclusive mildewcides, Shieldz PLUS prevents mold & mildew growth\* on the primer film and moisture condensation behind wallcovering, making it ideal for use in the most challenging humid environments. Shieldz PLUS provides superior protection for drywall against damage when stripping. Water-based, low-odor.

When used as a two-part system with SureGrip® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Adhesive – the ZINSSER PLUS system will prevent mold & mildew growth\* under wallcovering for up to 5 years – GUARANTEED.†

- For use on ALL surfaces with ALL wallcoverings
- Prevents mold & mildew growth\* on primer and inhibits musty odors
- Stops mildew stains, loose seams and buckling wallcovering
- Provides water-resistant surface for double-cutting
- High hiding
- Prevents drywall damage when stripping
- Two-part system – for MAXIMUM protection and to receive written 5-year mold & mildew-proof GUARANTEE†, use with SureGrip® PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Adhesive

### PHYSICAL & PERFORMANCE DATA

Appearance Dry:	White
Odor:	Mild
Solids by Weight:	47%
Solids by Volume:	35%
Density:	10.2 Pounds/Gallon
Viscosity Range:	95 – 110 KU
Thinning:	Do not dilute
Coverage:	350 sq. ft./gallon. Coverage may vary depending on porosity and application method.
Required Thickness of Film:	Apply 4 mil wet per coat. Dry film thickness must be 1.5 mil (DFT) per coat. Two coats are required for maximum protection and to receive warranty. Total DFT should be 3 mil after two coats.
Sprayer:	Use .017 tip size at 2000-2500 PSI for optimum spread rate.
Recommended Application Range:	50° F to 100° F
Cleanup:	With water
Recommended Storage Temperature:	40° F to 100° F
Freeze/Thaw Stable:	Yes
Flammability:	Non-flammable, water based
Flash Point (Seta Flash):	Greater than 200 °F
Dry Time (recoat at 70 °F):	2 hours per coat. 8 hours after second coat if double-cutting
Shelf Life:	2 years
Storage/Handling:	Store Indoors 40 °F – 90 °F (4°- 32°C)
Mildew Resistance:	MAXIMUM – Contains Zinsser's exclusive mold & mildew inhibitors
VOCs:	Less than 100 grams/liter
Toxicity:	Safe, pH Neutral

### †ZINSSER® PLUS Commercial Wallcovering 5-Year Warranty

Zinsser guarantees that mold and mildew on the primer or paste film will not cause the wallcovering to lose adhesion or cause stains to appear through the wallcovering when the wallcovering is installed according to The ZINSSER PLUS Commercial Wallcovering Specification. In summary, the Specification requires: a) property owners must apply for the Warranty; b) Surface must be clean, dry and sound, free of residual adhesive and pre-existing mold and mildew; c) two-coats of Shieldz® Universal PLUS Mold & Mildew-Proof Commercial Wallcovering Primer must be applied; and d) SureGrip® PLUS Mold & Mildew-Proof Commercial Wallcovering Adhesive must be used to install the wallcovering.

"If mold and mildew on the primer film or adhesive causes stains to appear through the wallcovering or causes the wallcovering to lose its adhesion within Five (5) years from the date of installation, ZINSSER will replace the primer, adhesive and wallcovering in the problem area. This Warranty does not include topical mold and mildew on the wallcovering, which should be removed by cleaning. This Warranty does not cover any labor costs associated with removal of existing wallcovering, remediation of mold and mildew and/or re-installation of new wallcovering."

Interested property owners should contact Zinsser Commercial Department for ZINSSER® PLUS Specification and Warranty registration procedure: 732-469-8100 or Email [zinsserplus@zinsser.com](mailto:zinsserplus@zinsser.com).

\* These products contain a mildewcide that prevents the growth of mold & mildew on the primer film and adhesive only.

## Selection Data

**Generic Type** – Acrylic water-based primer

**Recommended Uses** - For preparing existing, remodeled or new construction surfaces for wallcovering installations, for use over previously painted or wallpapered surfaces; on any surface where mold and mildew growth under wallcovering is a concern; on any drywall where permeability is unknown. For use with all types and weights of wallcoverings from lightweight to heavyweight vinyl (woven fabric- or paper-backed up to 40 oz. commercial grade types I, II and III) to delicate and special coverings such as silk, suede, grasscloth, string, fabric and foil.

### Application Data

**Surface Preparation** – Surface must be clean, dry, smooth and sound – free of dust, grease, wax, oil, old wallcovering adhesive, mold and mildew, and outside sources of moisture. Inspect surface for paint bonding, loose wallcoverings, damaged wallboard or plaster.

Surfaces painted before 1978 may contain lead. **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. 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](http://www.epa.gov/lead).

Remove old or loose wallcovering and residual wallcovering adhesive with **DIF® Wallpaper Stripper**. Repair unsound surfaces. Seal loose paint or damaged drywall and fully cured skim coats with **GARDZ® High Performance Sealer** as needed. Before proceeding with any unusual conditions, consult your primer supplier or Zinsser Sales Representative.

**Mold & Mildew** – Eliminate pre-existing mold and mildew by washing the affected area with **Perma-Wash™ Disinfectant and Fungicide Interior Concentrate** according to label directions or mix a solution of ¾ cup Clorox® Ultra Household Bleach with one gallon of clean water. (Bleach has a shelf life. Use fresh bleach less than 1 year old. Use of Clorox brand is recommended for freshness.) Apply bleach solution with a roller. Wear protection to prevent skin and eye contact. Quickly wash off any solution that comes in contact with your skin. Do not add ammonia or other cleaning products to the bleach solution. Rinse surface with clean water. Allow surface to dry thoroughly before applying wallcovering.

**Stains** – Seal any residual stains that might bleed into the wallcovering with **BULLS EYE® Odorless Primer Sealer** OR **B-I-N® Primer Sealer** prior to priming with **Shieldz PLUS**.

**Application** – Apply when temperature is above 50° F. Stir before using. DO NOT THIN. Apply 4 mil wet by brush, roller or sprayer with .017 tip size at 2000-2500 PSI for optimum spread rate. Cut in entire surface with brush at corners, edges and openings. Dries to touch in 15 minutes. Ready to be recoated after 2 hours. Check surface for pin-holes after second coat and touch up pin-holes or holidays with a brush. The goal is to produce a pin-hole free film. Ready to hang in 2 hours. **When double cutting, wait 8 hours before hanging wallcovering after second coat. Double-cut within one hour of hanging.** Close container tightly after each use.

**Color/Tinting** – **Shieldz PLUS** may be tinted to match most medium background colors. Maximum - 4 oz. of universal tinting color per gallon. If applying two coats, add tint to only the final coat. When adding tint allow primer to cure 12 hours before hanging wallcovering.

**New drywall** – New drywall must be wiped down with a damp cloth to remove residual joint compound dust prior to priming.

**Damaged drywall** – Removing wallcovering can tear or delaminate the drywall facing paper from its backing. Delaminated areas will appear as bubbles when new primers are applied and must be cut open and removed along with other loose flaps of facing paper. Prime damaged areas with **GARDZ® High Performance Sealer**, skim coat irregularities with drywall mud, and re-coat sanded, fully cured skim coats with **GARDZ** to reduce or prevent possible out-gassing before priming total area with **Shieldz PLUS**.

**Paint** – Allow freshly applied latex paint to cure at least 14 days before priming and installing wallcovering.

**Plaster** – New plaster must age 90 days before application of **Shieldz PLUS**.

**Glossy Surfaces** – Glossy paint, paneling, existing wallcovering, metal, glass, plastic, etc. should be primed with **Shieldz PLUS** prior to wallcovering installation.

**Metal surfaces** – Prime with a rust inhibitive **Bulls Eye 1-2-3® Primer**.

**Existing Vinyl Wallcovering** – Tightly adhered existing vinyl wallcovering can be primed over with **Shieldz PLUS** after thoroughly cleaning entire surface area with mineral spirits to remove plasticizers and residue, Finish by washing with a Trisodium phosphate (TSP) cleaning solution, then rinse with clean water. Some plasticizers may prevent primer adhesion. Check primer adhesion before proceeding with entire project. Before proceeding with any unusual conditions, consult your primer supplier or Zinsser Sales Representative. If porous or uncoated wallcoverings and wallpapers with metallic inks should be either removed or sealed with **B-I-N® Primer Sealer** before applying **Shieldz PLUS**.

**Wallcovering Removal** – Wait 30 days or longer for primer and wallcovering adhesive to fully cure before removing vinyl wallcovering.

**Coverage** – Five gallons will cover up to 1500 square feet. Avoiding mold & mildew growth on the primer film can only be assured if enough primer film is in place. Apply at maximum 350 square feet per gallon (4 mil wet) for optimum protection. Dry film thickness must be 1.5 mil (DFT) per coat. Total DFT should be 3 mil after two coats. A single coat of **Shieldz® PLUS** will significantly reduce problems caused by mold and mildew on the primer film. **Two coats must be applied for maximum protection and to earn the extended Warranty.**

**Dry Time** – Dries to touch in 15 minutes; wallcovering can be hung in 2 hours. **When double-cutting, allow to dry 8 hours minimum.**

**Cleanup** – Wash all tools and spots immediately with warm water.

**Storage/Shelf Life/Disposal** – **Protect from freezing.** Always keep the container tightly closed and store in a cool dry place at temperature between 40° F to 100° F. Normal storage life is two years. **Shieldz PLUS** is a water-base acrylic coating. Dispose of unused or unwanted product in accordance with applicable federal, state and local laws and regulations.

**Caution** – Avoid contact with eyes and skin. Wear eye and skin protection. In case of eye contact, flush eyes with plenty of water for at least 15 minutes. In case of skin contact, wash thoroughly with soap and water. Do not take internally. If swallowed contact a physician or Poison Control Center. Use with adequate ventilation. **WARNING:** This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm. **Keep Out of Reach of Children.**

**Limited Warranty** - This product will perform as claimed if applied according to our directions. The directions apply to most applications, but may not cover special conditions, applications, techniques and/or surfaces. If you have a question, check with your dealer or contact ZINSSER Co., Inc., Somerset, NJ. Warranty is limited to replacement or refunded value of product actually used when supported by proof of purchase if such product proves defective within one year from date of manufacture.

## Packaging and Shipping Information

Size	Item No.	Product UPC	Carton Code	Case Dimensions	Case Pack	Case Wt Lbs.	Case Vol. In.	Pallet Pack	Pallet Size
Five Gallon	03200	047719 03200 7	-	12" x 12" x 15"	1	52	1.25	36	40 x 48"

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

**CAUTION:** 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 is true and accurate at the date of issuance and is 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 use.



## MOLD & MILDEW-PROOF™\* COMMERCIAL WALLCOVERING PRIMER

SureGrip® PLUS Heavy Duty Mold & Mildew-Proof™\* Commercial Wallcovering Adhesive is a high performance clear strippable wallcovering adhesive developed for demanding commercial wallcovering applications where mold and mildew is a concern. Formulated with Zinsser's exclusive mildewcides, SureGrip PLUS will eliminate problems such as staining, loose seams and buckling wallcovering caused by mold and mildew. It's unique non-dilution formula is easy to spread and flows easily in a paste machine without the need to add water that can contaminate the adhesive.

When used as a two-part system with Shieldz® Universal PLUS Mold & Mildew-Proof™\* Commercial Wallcovering Primer – the ZINSSER PLUS system will prevent mold & mildew growth\* under wallcovering for up to 5 years – GUARANTEED.†

- For use with vinyl and other commercial wallcoverings
- Prevents mold & mildew growth\* on adhesive, mildew stains & musty odors
- Unique non-dilution formula prevents loose seams and buckling wallcovering
- Superior wet tack and extended open time for trouble-free booking and double-cutting
- Spreads and flows easily – Ideal for pasting machines
- Non staining, easy cleanup
- Two-part system – for MAXIMUM protection and to receive written 5-year mold & mildew-proof GUARANTEE†, use with Shieldz Universal PLUS Mold & Mildew-Proof Commercial Wallcovering Primer

### PHYSICAL & PERFORMANCE DATA

Appearance Dry:	Clear
Odor:	Mild
% Solids:	33% +/- 1%
Viscosity:	34,000 - 38,000 cps
Thinning:	Non-dilution formula. DO NOT DILUTE. Stir, whip or shake to thin to desired consistency.
Coverage:	280 sq. ft./gallon (May vary depending on porosity and application method)
Pasting Machine:	Ready-to-use – whip, stir or shake
Cleanup:	With water
Recommended Application Range:	65° F to 85° F, with less than 50% relative humidity
Recommended Storage Temperature:	40° F to 100° F
Freeze/Thaw Stable:	Yes
Flammability:	Non-flammable, water based
Shelf Life:	1 year
Mold & Mildew Resistance:	MAXIMUM – Contains Zinsser's exclusive mold & mildew inhibitors
VOC's:	Less than 10 g/L
Removal:	Dry strip fabric-backed vinyl, wet strip paper-backed materials
Toxicity:	Safe, pH Neutral

### †ZINSSER® PLUS Commercial Wallcovering 5-Year Warranty

Zinsser guarantees that mold and mildew on the primer or paste film will not cause the wallcovering to lose adhesion or cause stains to appear through the wallcovering when the wallcovering is installed according to The ZINSSER PLUS Commercial Wallcovering Specification. In summary, the Specification requires: a) property owners must apply for the Warranty; b) Surface must be clean, dry and sound, free of residual adhesive and pre-existing mold and mildew; c) two-coats of Shieldz® Universal PLUS Mold & Mildew-Proof Commercial Wallcovering Primer must be applied; and d) SureGrip® PLUS Mold & Mildew-Proof Commercial Wallcovering Adhesive must be used to install the wallcovering.

"If mold and mildew on the primer film or adhesive causes stains to appear through the wallcovering or causes the wallcovering to lose its adhesion within Five (5) years from the date of installation, ZINSSER will replace the primer, adhesive and wallcovering in the problem area. This Warranty does not include topical mold and mildew on the wallcovering, which should be removed by cleaning. This Warranty does not cover any labor costs associated with removal of existing wallcovering, remediation of mold and mildew and/or re-installation of new wallcovering."

Interested property owners should contact Zinsser Commercial Department for ZINSSER® PLUS Specification and Warranty registration procedure: 732-469-8100 or Email [zinsserplus@zinsser.com](mailto:zinsserplus@zinsser.com).

\* These products contain a mildewcide that prevents the growth of mold & mildew on the primer film and adhesive only.

Selection Data

Generic Type - Starch-based wallcovering adhesive.

Recommended Uses – For wallcovering installations in existing, remodeled or new construction sites and on most wallcoverings where mold and mildew growth under wallcovering is a concern. Use for hanging most types and weights of commercial wallcoverings from lightweight to heavyweight vinyl (woven fabric- or paper-backed up to 40 oz. commercial grade types I, II and III) to delicate and special coverings such as silk, suede, grasscloth, string, fabric and foil. Refer to the "SureGrip Adhesive Selection Chart" online at www.zinsser.com for detailed recommendations

Not Recommended For – Wallcoverings that are moisture sensitive or prone to edge curling, bubbling or staining. Not recommended for polyolefin materials or some wallcoverings backed with very high polyester content fabric. This product is not intended for hanging borders or wallcovering over existing vinyl wallcovering. See "Existing Vinyl Wallcovering" for recommendations.

Application Data

Surface Preparation - Surface must be clean, dry, smooth and sound – free of dust, grease, wax, oil, old wallcovering adhesive, mold and mildew and other residue. Inspect surface for paint bonding, loose wallcoverings, damaged wallboard or plaster. Remove old or loose wallcovering and residual wallcovering adhesive with DIF® Wallpaper Stripper. Repair unsound surfaces. Seal loose paint or damaged drywall and fully cured skim coats with GARDZ® High Performance Sealer as needed.

Prime all surfaces (including oil-based paint, oil-based primers for painted surfaces and latex or oil-based stain-kill coatings) with Shieldz® Universal PLUS Mold & Mildew-Proof™ Commercial Wallcovering Primer. Before proceeding with any unusual conditions, consult your wallcovering or adhesive supplier.

Environmental Conditions: Recommended temperature application range is between 65° F to 85° F with less than 50% relative humidity where HVAC has been environmentally controlled for at least 4 days before wallcovering installation and temperature is maintained after installation.

Application - DO NOT DILUTE. Stir, whip or shake to thin to desired consistency. Apply an even coat using a roller, brush or pasting machine. Make sure sufficient adhesive is on edges. Avoid contact with the surface of embossed or delicate wallcovering. Double cut within 1 hour after hanging. More porous substrates may require quicker double cutting. Book and hang wallcovering according to manufacturer's instructions.

Use a separate pail if applying adhesive by roller and store balance of undiluted adhesive in original pail with the original lid secured. Each pail of adhesive should be used within 24 hours after opening to minimize contamination.

Adhesive rollers, brushes and paste machines must be cleaned daily to prevent contamination or spoilage. Seal partially used containers between uses and do not use paste that has been repeatedly opened and closed or stored longer than two days after opening.

After installing 3 sheets, inspect the wallcovering for proper installation and adhesive compatibility with wallcovering. If a problem occurs, stop and contact your local distributor or Zinsser sales representative. Proceeding beyond this point will be done at the installer's risk and will absolve Zinsser Co, Inc., the local distributor and wallcovering manufacturer of all responsibility.

Packaging and Shipping Information

Table with 11 columns: Size, Item No., Product UPC, Carton Code, Case Dimensions, Case Pack, Case Wt Lbs., Case Vol. In., Pallet Pack, Pallet Size. Row 1: Five Gallon, 02850, 0 47719 02850 5, -, 12" x 12" x 15", 1, 47, 1.25, 36, 40" x 48"

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

CAUTION: 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 is true and accurate at the date of issuance and is 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 use.

Mold & Mildew - Eliminate pre-existing mold and mildew by washing the affected area with Perma-Wash™ Disinfectant and Fungicide Interior Concentrate according to label directions. To remove stains clean with Jomax® Mold & Mildew Stain Remover or a solution of 3/4 cup of Clorox® Ultra Bleach to 1 gallon of clean water. Wear protection to prevent skin and eye contact. Quickly wash off any solution that comes in contact with your skin. Do not add ammonia or other cleaning products to the bleach solution. Rinse surface with clean water. Allow surface to dry thoroughly before applying wallcovering.

Drywall - Wipe down with a damp cloth to remove residual joint compound dust prior to priming

Plaster - New plaster must age at least 90 days before hanging wallcovering. Prime prior to installation.

Glossy Surfaces - Glossy paint, paneling, metal, glass, plastic, etc. should be primed with Shieldz Universal PLUS prior to wallcovering installation. Metal surfaces should be primed with rust inhibiting Bulls Eye 1-2-3® Primer.

Existing Vinyl Wallcovering - This product is not intended for hanging wallcovering over existing vinyl wallcovering. For hanging directly over vinyl, use SureGrip 127 Vinyl Over Vinyl Wallcovering Adhesive according to label instructions. For hanging borders over vinyl, use SureGrip Border Adhesive For Wallpapered Surfaces.

Wallcovering Removal – Wait 30 days or longer for primer and wallcovering adhesive to fully cure before removing vinyl wallcovering.

Textile/Delicate/Polyolefin/Polyester Backed Wallcoverings - Take special care to keep the adhesive off the face of textile or delicate wallcovering. Some wallcovering can be stained by water alone. Test for stain resistance prior to the installation and hang according to manufacturer's instructions. Use SureGrip Clay PLUS Mold & Mildew-Proof Adhesive on wallcoverings with high polyester content backings (backing will appear shiny).

Coverage - Five gallons will hang up to 1400 sq. ft./5-gallon (up to 110 linear yards of 54" wallcovering). Spread rate may differ with various backings.

Dry Time - Drying time will vary depending on the wallcovering type, temperature, ventilation and humidity of the room.

Cleanup - Remove excess adhesive on or around the wallcovering immediately with clean water. Additional effort may be required if adhesive is allowed to contact the surface of embossed or textured vinyl. Close container tightly after each use.

Tool Cleanup - Clean tools with warm water.

Storage/Shelf Life/Disposal - Protect from freezing. Always keep the container tightly closed and store in a cool dry place at temperature between 40° F to 100° F. Normal storage life is one year. The disposal of excess or left over product should conform to local laws regarding water-based products.

Caution - Avoid contact with eyes and skin. Wear eye and skin protection. In case of eye contact, flush eyes with plenty of water for at least 15 minutes. In case of skin contact, wash thoroughly with soap and water. Do not take internally. If swallowed contact a physician or Poison Control Center. Use with adequate ventilation. Keep Out of Reach of Children.

Limited Warranty - This product will perform as claimed if applied according to our directions. The directions apply to most applications, but may not cover special conditions, applications, techniques and/or surfaces. If you have a question, check with your dealer or contact ZINSSER Co., Inc., Somerset, NJ. Warranty is limited to replacement or refunded value of product actually used when supported by proof of purchase if such product proves defective within one year from date of manufacture.

## PERMA-WASH™ DISINFECTANT & FUNGICIDE INTERIOR CONCENTRATE

**PERMA-WASH™ Disinfectant and Fungicide Interior Concentrate** is a disinfectant, fungicide, virucide, bactericide, mildewcide and mildewstat. It also provides exceptional cleaning and deodorizing. PERMA-WASH has broad-spectrum efficiency and economy for commercial, institutional and industrial disinfection in hospitals, medical and dental offices, nursing homes, industrial and institutional facilities.

PERMA-WASH is EPA registered for mold & mildew control on hard surfaces in Hospitals, Institutions, and Homes. Its fast mode of action makes it the perfect product for effective single operation mold & mildew control. The ability of PERMA-WASH to counteract and oxidize odors offers a definite plus to its disinfecting activity.

### Selection Data

**Generic Type – Unique Cryocide® Disinfectant Brand technology** - A combination of Chlorine Dioxide, Quaternary Ammonia, and surfactant that produces a highly potent broad spectrum biocide concentrate that is less damaging than household bleach – lower odor; less corrosive; and it won't discolor.

**EPA Data** – EPA Reg. No. 9150-11-71240. NOTE: IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

### Performance Characteristics

- **Fast mode of action** – it works rapidly and thoroughly to control mold & mildew on hard surfaces in a single treatment.
- **Odor counteractant** – oxidizes malodors. Provides exceptional cleaning and deodorizing without the damage or discoloration that bleach can cause.
- **Disinfectant, fungicide, virucide\*, bactericide, mildewcide and mildewstat** – broad-spectrum efficiency and economy for commercial, institutional & industrial disinfection. \*Human Immunodeficiency Virus Type 1 (HIV-1)(AIDS Virus) • Herpes Simplex Virus Type 1 and 2 • Influenza A2 (Hong Kong-68) Virus on Inanimate Environmental Surfaces.

**Recommended Uses** – PERMA-WASH is recommended for use on hard, non-porous surfaces such as walls, floors, basins, bathroom fixtures, sinks, bathtubs, chairs, counter-tops, tables, sinks, toilets, urinals and other hard, non-porous surfaces.

PERMA-WASH can be topcoated with any latex, alkyd, or shellac base clear or pigmented paint or coating. It will not damage (cured) paint films making it excellent for maintenance. (Follow label dilution directions. Pretest painted surfaces for color retention).

### Application Data

Mixing instructions- **For treating mold and mildews:** A gallon of **PERMA-WASH™** makes 5 gallons of solution; five gallons of **PERMA-WASH™** makes 25 gallons. Actual coverage will depend upon quantity applied and porosity of the surface.

### To Treat Surfaces Contaminated With Mold & Mildew

1. Mix 1 part PERMA-WASH Concentrate with 4 parts water.
2. Remove all heavy build-up of gross filth and loose debris from areas to be treated. To reduce spore spread, pre-treat with PERMA-WASH. Wait 10 minutes.



3. After heavy debris is removed, re-apply PERMA-WASH.

Application: Use a commercial low-pressure sprayer 6 to 8 inches from the surface or use a mop, sponge, wipe or other suitable device.

**Note:** Where mist or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices. In the absence of proper environmental controls, a NIOSH approved respirator is advised.

4. Make sure the treated area is thoroughly wet for at least 10 minutes and allow to air dry. Remove any mold debris remnants.
5. Repeat every 7 days or more frequently if growth reoccurs.

**NOTE:** Since dead mold spores – even those turned white or invisible by bleaching – can be a food source for future mold growth, it is essential that even dead mold be removed by cleaning or scrubbing. PERMA-WASH works rapidly on mold spores while allowing for effective visual removal of any remaining mold debris.

### For Preventative Maintenance Against Mold & Mildew

1. Mix 1 part PERMA-WASH Concentrate with 7 parts of water.
2. Follow Steps 2 – 4 listed above.
3. Repeat application at weekly intervals or when growth appears.

### Hospitals, Medical and Dental Offices, Nursing Homes Disinfection & Virucidal (against HIV-1, Herpes Simplex and Influenza)

Use undiluted (neat) Apply undiluted PERMA-WASH™ to hard, non-porous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge or sprayer, or by immersion. Treated surfaces must remain wet for 10 minutes. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled surfaces, a pre-cleaning is recommended. **Rinse all surfaces that come in contact with foods such as countertops, appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes.** For sprayer applications, use a coarse spray device. Spray 6 to 8 inches from the surface rub with a brush, sponge or cloth. Do not breathe spray. This product is not to be used as a terminal sterilant/high-level disinfectant on any surface or instrument that (1) is introduced directly into the human body,

# Perma-Wash™ Disinfectant & Fungicide Concentrate

either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi critical medical devices prior to sterilization or high-level disinfection.

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATING AGAINST HIV OR SUR- FACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS** that involve healthcare settings or other settings in which there is an unexpected likelihood of soiling of inanimate surface/objects with blood or body fluids, and in which the surfaces/objects soiled with blood or body fluids can be associated with the transmission of HIV-1. PERMA-WASH Disinfectant and Fungicide destroys HIV-1 on pre-cleaned environmental surfaces/objects previously soiled with blood or other body fluids in 30 seconds contact.

**Personal Protection:** The worker should wear disposable latex gloves or rubber gloves, gown, mask and eye protection to prevent contamination from soiled items.

**Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of PERMA-WASH Disinfectant and Fungicide Interior Concentrate.

**Contact Time:** Allow PERMA-WASH Disinfectant and Fungicide to contact treated items for 30 seconds. This time will not control other common types of viruses and bacteria.

**Disposal of Infectious Material:** Any blood or other body fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

**Shelf Life** 12 months from date stamp  
**Storage/Handling** Store indoors  
 40°F – 80°F  
 Keep away from extreme heat.

**IMPORTANT NOTE:**  
**EPA Reg. No. 9150-11-71240**  
**(Not available for sale in California).**

**Limited Warranty**

This product will perform as claimed when used according to label directions. Directions are as complete as possible but cannot encompass all conditions, applications, and/or surfaces beyond manufacturer's control. 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 refunded value of product actually used when supported by proof of purchase. This guarantee is not transferable. If you have a question, check with your dealer or call ZINSSER CO., Inc.

**Packaging and Shipping Information**

Unit Size	Code	Product UPC	Carton Code	Harmonized/ Hazmat Code	Case Pack	Case Wt. Lbs.	Dimensions	Case Vol. Inches	Pallet Pack	Pallet Size
1 gallon	60601	0 47719 60601 7	4 00 47719 60601 5	3808.30.0000	4	35	14" x 7 1/4" x 7 3/4"	786	90	42 x 42
5 gallon	60600	0 47719 60600 0	N/A	Non Haz-Fung	1	43.0	12 3/4" x 9" x 13"	1,492	36	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 use. Visit Zinsser.com for our most up-to-date technical data bulletins.

**PRECAUTIONARY STATEMENTS: Hazards to Human & Domestic Animals**

**CAUTION:** Causes moderate eye irritation. Avoid contact with skin eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**FIRST AID**

**If swallowed:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND DISPOSAL:** Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in the original container in a dry, temperature controlled area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, contain/re-capture spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Do not reuse empty container. Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Cryocide is a registered trademark of International Dioxide, a DuPont Company.

# GARDZ

## High Performance Sealer For Porous Surfaces Prior Wallcovering, Painting & Texturing



**Product No.**

02300

02301

02304

**Generic Type** – Clear, water-base, acrylic resin sealer

**Performance Characteristics**

- Penetrates deeply into porous surfaces
- Dries fast to a hard, moisture-proof film
- Prevents drywall blistering/bubbling
- Binds down chalky surfaces
- Strengthens soft texture finishes
- Seals in residual wallpaper paste
- Can be applied to high-pH surfaces
- Clear, low odor, water-base formula

**Recommended Uses** – Apply to interior walls, ceilings and related surfaces. GARDZ is recommended for sealing problem porous surfaces such as bare and damaged drywall, plaster, cement and cementitious coatings, spackling paste and joint compound, calcimine, stucco, acoustic and texture finishes, uncoated wallpaper, etc. GARDZ will also adhere to and seal in old wallpaper paste and adhesive residue. GARDZ has a milky-blue color that helps to determine where it has been applied but dries water clear. It is formulated for use directly from the container; tinting is not recommended.

- **Damaged Drywall** - GARDZ prevents bubbles that form when damaged drywall is skim coated with spackling or joint compound. GARDZ penetrates and seals damaged facing paper, restoring it to a sound surface for repairs, suitable for painting or wallcovering.
- **New Drywall/Joint Compound and Spackling** - GARDZ penetrates and uniformly seals, creating a moisture-resistant film that protects drywall from blistering, tearing and other damage when redecorating in the future.
- **Plaster** – Allow new plaster to cure at least 24 hours before applying GARDZ. Before priming old, bare plaster with GARDZ be sure to determine that the surface is clean, dry and in sound condition, taking care to repair any cracks or holes with spackling paste or joint compound before sealing the surface.
- **Calcimine** - GARDZ penetrates calcimine more effectively than oil-base coatings and has a much lower odor. Because it resists moisture, GARDZ prevents water-base topcoat paint or texture finishes from softening up calcimine layers underneath.
- **Wallpaper Adhesive Residue** - Water-base coatings or texture finishes will reactivate old wallpaper adhesive, resulting in cracking and peeling. GARDZ is formulated to completely seal in residual adhesive and prevent it from ruining water-base topcoats and texture finishes.
- **Texture and Popcorn Finishes** - Use GARDZ to seal textured walls and popcorn ceilings before applying water-base primer or paint. GARDZ penetrates soft or crumbly texture material and hardens it, creating a durable, water-resistant barrier that prevents primer or paint from softening texture material underneath.

- **Old Uncoated Wallpaper** - To determine if the wallcovering is a true paper wipe a wet sponge across the surface – if the water is readily absorbed it means there is no vinyl coating. This type of wallcovering can be effectively sealed with GARDZ.

**Surface Preparation** - Surfaces should be clean, dry, sound and free of dust, dirt, excessive chalky material, grime, grease, oil, wax, mildew, wallpaper adhesive or any contamination that may interfere with adhesion. If unsure, always wash surface with a household ammonia and water solution, appropriate cleaning solution, or solvent (Do not use TSP as a cleaner). Remove any unsoundly adhered coatings. Sand any remaining paint film edges smooth with the surface. Countersink exposed nailheads and fill all nailholes and gouges with Ready Patch<sup>®</sup>. Remove interior mold and mildew before painting with a solution of one cup household bleach per gallon of water or a quality biocidal wash. Rinse well. Always wear protective clothing and goggles to prevent eye and skin contact with bleach. Do not mix ammonia or any other chemical with bleach solution. 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. **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](http://www.epa.gov/lead).

**Application Conditions** – Apply when temperature is above 50° F (10° C) and below 90° F (32° C). Warmer temperatures will accelerate and colder temperatures will prolong the dry time of this product. Do not apply if humidity is greater than 85%. Close container after each use.

**Application Methods** – Stir well before using. Do not thin. Using a brush, medium nap roller or sprayer, apply GARDZ liberally to the entire surface to ensure good penetration. Do not over-apply or coating will sag. GARDZ appears milky blue-white during application but dries water-clear; properly sealed surfaces should have a uniform sheen when viewed at an angle. Reapply to areas that have been missed or not sufficiently coated.

## High Performance Sealer

Keep container closed when not in use.

- **Brush** – For best results use a quality nylon/polyester or other, similar, synthetic blend bristle brush with flagged tips.
- **Roller** – Use a roller with a 3/8" or less synthetic nap or use the Zinsser WallWiz® Roller. Apply GARDZ to walls from the bottom up to prevent product from running down the wall. For ceiling applications where a roller would be too messy or disruptive (popcorn ceilings, for example) GARDZ may be applied using a power sprayer or garden sprayer (see below).
- **Sprayer** – GARDZ may be applied using HVLP or airless sprayer systems. Use a .011 to .013 tip and 800 to 1200 psi for airless application. Maintain a distance of at least 18 to 24 inches between the spray tip and the surface. If surface is too fragile for power sprayer application, GARDZ may be applied with a garden sprayer. For best results, use a sprayer with a clean 2-gallon plastic tank. Pour GARDZ into the tank and pressurize according to manufacturer's directions. Adjust the nozzle setting to dispense the product in a fine, consistent, fan pattern, keeping the sprayer tip at least 12 to 18 inches from the surface. Follow manufacturer's instructions for clean up and storage and protect adjacent areas from over-spray.

**Drying Time** – Dries to touch in 30 minutes. Porous surfaces that have been sealed with GARDZ are ready for finish coating or wallpapering after 3 hours.

**Topcoating/Wallpapering** – When dry, GARDZ may be topcoated with any standard architectural water-base or oil-base primer or topcoat paint. GARDZ is compatible with all types of joint compounds and spackling pastes and any texture or popcorn finish may be applied over it. Although wallpaper may be installed directly over any surface that has been coated with GARDZ, some types of wallpaper and translucent wallcoverings may require an additional coat of an opaque primer such as *SHIELDZ® Universal*.

**Coverage** – Approx. 350 – 450 sq. ft. (33 – 42 m<sup>2</sup>) per gallon. Textured or skim coated surfaces will be very absorbent and may require a second coat. Application losses may vary according to the porosity of the substrate and the method of application and should be taken into account when estimating the quantity of product needed.

**Cleanup** – Clean up spills and drips with a wet, soapy 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 ammoniated household detergent and water. Follow manufacturer's instructions when cleaning spray equipment.

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

**Limitations** – Not recommended for floors or decks or surfaces subject to immersion or prolonged contact with water. These limitations are not to be construed as all-inclusive.

**ZINSSER Co., Inc. 173 Belmont Drive Somerset, NJ 08875**

**CAUTION:** 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. 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 use.

**Precautions - WARNING! May cause eye and skin irritation.** Avoid contact with eyes and skin. 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. **KEEP OUT OF REACH OF CHILDREN.**

**Warranty** – GARDZ is guaranteed to perform as indicated when applied according to label directions to a properly prepared surface. Directions are as complete as possible but cannot encompass all conditions, applications, and/or surfaces beyond manufacturer's control. The contents of the container are warranted to be free from any other defect for 2 years from the date of manufacture. All warranties and guarantees are limited to refund or replacement of product used with proof of purchase. No other warranty or guarantee is expressed or implied.

### Typical Physical Properties

<b>Percent Solids, Weight:</b>	26.0%
<b>Percent Solids, Volume:</b>	22.0%
<b>Density:</b>	8.4 lb. (3.81 kg)/gal
<b>Viscosity Range:</b>	100 – 500 cps (74F)
<b>Theoretical Spread Rate @ 1 mil DFT:</b>	350 sq. ft on porous surfaces
<b>Dry Time @ 75° F/50% RH:</b>	Touch: 1 hours Recoat: 3 hours
<b>Dry Film perm rating:</b>	26 perms
<b>Alkaline resistance:</b>	≤12.5 pH
<b>Flame Spread (ASTM-84-97A):</b>	5, Class 1
<b>Flash Point (ASTM D3278):</b>	>200° F (>93° C)
<b>Flammable Limits in Air Lower (LEL):</b>	xx
	Upper (UEL): xx
<b>VOC:</b>	<100 g/L
<b>Freeze/Thaw Stable:</b>	KEEP FROM FREEZING.
<b>Shelf Life:</b>	60 mo @ 75° F (24° C)
<b>Storage/Handling:</b>	Store indoors 40° – 90° F (4° – 32° C)

**Technical Assistance** - Available through local authorized Zinsser dealers. For the dealer nearest you call 732-469-8100 or visit our website at [www.zinsser.com](http://www.zinsser.com).