

# Planiseal Max

High-Performance, One-Component, Textured,  
Moisture Vapor Barrier and Primer



## DESCRIPTION

*Planiseal*<sup>®</sup> Max is a two-coat, high-solids, polymer-based, moisture-control membrane and textured primer for self-leveling underlayments. *Planiseal Max* protects flooring installations against subfloor moisture and pH in concrete slabs with moisture vapor emission rates (MVERs) up to 25 lbs. (11.3 kg) per ASTM F1869, relative humidity (RH) up to 100% per ASTM F2170 and alkalinity protection up to pH of 14. *Planiseal Max* eliminates the need for a secondary primer for self-leveling applications.

## FEATURES AND BENEFITS

- Fast drying times
- Colored burgundy to help ensure proper coverage
- Water-based formulation for ease of use and cleanup

## INDUSTRY STANDARDS AND APPROVALS

- Meets performance requirements of ASTM F3010, "Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings"
- Complies with ASTM F3513, "Standard Practice for Single Component, Fluid-Applied Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings"

## WHERE TO USE

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- For reducing subfloor moisture vapor emissions over concrete slabs
- For providing a pH blocker on concrete slabs with an elevated pH up to pH 14
- To prime cement or wood substrates before the application of self-leveling underlayments

## LIMITATIONS

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- Do not install over substrates containing asbestos.
- Do not apply over standing water.
- For interior installations only
- Do not install when the MVER exceeds 25 lbs. per 1,000 sq. ft. (11.3 kg per 92.9 m<sup>2</sup>) per 24 hours when using the anhydrous calcium chloride test (per ASTM F1869).
- Do not use when the RH of the concrete slab exceeds 100% (per ASTM F2170).
- Do not use if the pH of the concrete slab is greater than 14.
- Do not install in areas with known hydrostatic moisture or alkali silica reaction problems.
- Do not install over nonporous substrates.

## SUITABLE SUBSTRATES

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- Absorbent new/existing concrete on, above and below grade and at least 7 days old. A concrete substrate must have some open porosity, with an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of at least #1.
- Cement-based, self-leveling underlayments and patching compounds
- Exterior-grade plywood, Group 1, CC type; other approved wood underlayments (per the flooring manufacturer's recommendations) as a sealer/primer only

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

## SURFACE PREPARATION

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- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).
- To determine if a slab is absorbent, perform a water droplet test per test methods of ASTM F3191-16, "Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates to Receive Resilient Flooring." If the water beads, the surface is not absorptive and requires additional preparation to achieve acceptable absorbency. If the water darkens or penetrates the concrete, the surface is ready to receive *Planiseal Max*. A bond test is always encouraged to determine complete compatibility.
- All substrates must be structurally sound, surface-dry, solid and stable.
- Substrates should be porous, clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, and any other substance or condition that may prevent or reduce adhesion.

See the "Surface preparation requirements" reference guide in the Floor Covering Installations Systems section of MAPEI's Website.

- *Planiseal Max* is designed for moisture mitigation only. Consult with an experienced engineer to determine the appropriate substrate repair procedures and joint treatment methods. The crack repair procedures and joint treatment methods listed below should be considered by a consultant or engineer to address contraction as well as potential expansion, movement and isolation joints. Regardless of treatment, MAPEI does not warrant against the appearance of cracks or debonding that results from subsequent substrate movement of any kind.
- Mechanically prepare control and construction/expansion joints with a diamond crack-chasing/concrete cutting blade. Overcut the joint width to obtain a sound, clean edge. Clean cracks or joints with oil-free compressed air and/or vacuum with a dustless collection system to completely remove contaminants (follow ACI RAP Bulletin 2, "Crack Repair by Gravity Feed with Resin").

### **Dormant crack/joint treatment**

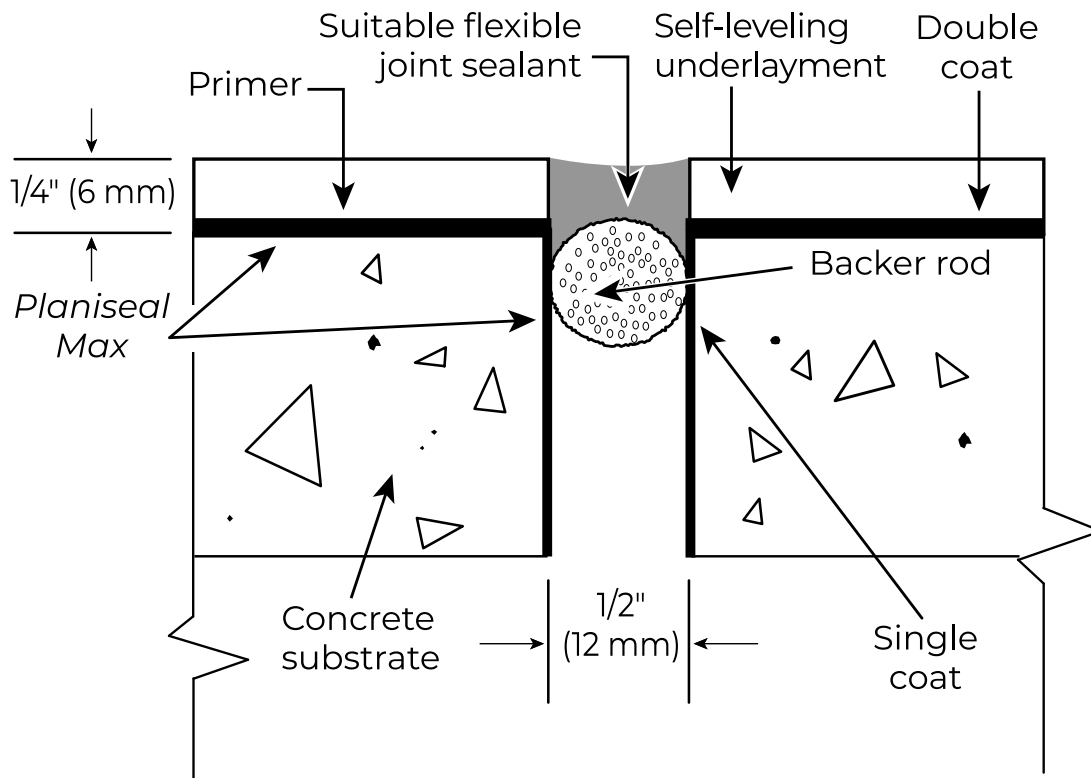
For cracks/joints that are dormant (with no movement), first mechanically remove any weak and/or contaminated areas. Treat the clean crack/joint with *Planiseal Max* by applying a layer into the cavity with a paintbrush to completely coat the surfaces. Once dry, fill the crack/joint with a suitable cement-based MAPEI patching/skimcoating material. Do not flood the crack/joint with *Planiseal Max*.

### **Dynamic crack/joint treatment**

Dynamic cracks/joints are active and will exhibit movement. Bridging these cracks/joints and maintaining a monolithic membrane cannot be guaranteed. To address them, first mechanically remove any weak and/or contaminated areas. Treat the clean crack/joint with *Planiseal Max* by applying a single layer onto the cavity walls with a paintbrush to completely coat the surfaces. Do not flood the crack/joint with *Planiseal Max*. Into the void, install an appropriately sized compressible backer rod and leave an appropriate depth for the application of a suitable MAPEI sealant. Always refer to the finish flooring manufacturer's recommendations for their installation recommendations over dynamic cracks/joints. Many flooring materials require that dynamic joints are continued through the entire installation system. It is always the responsibility of the project design team to determine if a crack is dynamic or dormant.

### **Expansion, movement and isolation joint treatment**

See the following diagram.



## MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

- Ready to use, with no mixing necessary. Settling may occur. If needed, gently stir the product until it is smooth and consistent. The product should have a consistent and noticeable texture once applied and when dry.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Do not install unless the temperature of the prepared concrete slab is at least 5 degrees Fahrenheit (2.8 degrees Celsius) above the dew point, to avoid condensation.
2. Pour *Planiseal Max* into a paint tray and apply using a 3/8" (10-mm) nap roller. Do not pour the product directly onto the substrate. A dip-and-roll method can also be used directly from the product pail.
3. Smooth out the product with a well-saturated 3/8" (10 mm) nap roller, using even and consistent strokes to achieve 100% coverage and to achieve 100% coverage at a coverage rate of about 250 sq. ft. per U.S. gal. (6.12 m<sup>2</sup> per L).
4. Allow the first coat to completely dry (for about 30 minutes).
5. Apply the second coat, rolling it perpendicular to the direction of the first coat, also at a rate of about 200 sq. ft. per U.S. gal. (4.9 m<sup>2</sup> per L).
6. Allow *Planiseal Max* to completely dry (for at least 1 to 2 hours) before application of patches, adhesives or self-leveling underlayments.
7. The drying time of *Planiseal Max* will vary based on the substrate's porosity and moisture levels as well as other jobsite conditions.

## CLEANUP

- Use water to clean tools and hands while the product is still fresh/wet.

## PROTECTION

- Protect the application area from traffic and other trades until the final installation of flooring.

### Product Performance Properties

Laboratory Tests	Results
Polymer type	Proprietary
Solids content	56%
VOC content (SCAQMD Rule 1113)	< 50 g per L
Typical VOC content per SCAQMD Rule 1113 testing methods	28 g per L
Flash point (Tag)	> 200°F (93°C)
pH	8.8
Density	9.6 lbs. per U.S. gal. (1.15 g per L)
Perm rate – ASTM E96	< 0.1 perms

### Shelf Life and Product Characteristics

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Physical state	Liquid
Color	Burgundy
Minimum thickness for full product performance	10 to 14 mils WFT (complete double coat)

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

**Application Properties at 73°F (23°C)**  
and 50% relative humidity

Substrate temperature range	50°F to 90°F (10°C to 32°C)
Drying time of first coat	30 minutes
Drying time of second coat	1 to 2 hours

**Packaging**

Size
Pail: 4 U.S. gals. (15.1 L)

**Approximate Coverage\***  
per 4 U.S. gals. (15.1 L)

Flooring Type	Thickness	Coverage
Porous concrete	Double coat with 3/8" (10 mm) nap roller	500 to 600 sq. ft. per 4 U.S. gals. (46.5 to 55.7 m <sup>2</sup> per 15.1 L)

\*Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions.

## ADDITIONAL INFORMATION

Refer to the Safety Data Sheet (SDS) for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact [sustainability\\_USA@mapei.com](mailto:sustainability_USA@mapei.com) (USA) or [sustainability-durabilite@mapei.com](mailto:sustainability-durabilite@mapei.com) (Canada).

## WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

#### LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at [www.mapei.com](http://www.mapei.com). **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

## CONTACT INFORMATION

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1-800-361-9309

### Customer Service

1-800-42-MAPEI (1-800-426-2734)

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For the most current product data and BEST-BACKED<sup>SM</sup> warranty information,  
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