



# Planiseal<sup>TM</sup> WR

## Penetrating Water-Based Silane/Siloxane Water Repellent



### DESCRIPTION

*Planiseal WR* is a new-technology, silane/siloxane-blend, water-repellant, transparent sealer offering superior performance and VOC compliance. *Planiseal WR* offers fast-beading water repellency for porous concrete, brick, stone and grout. *Planiseal WR* is water-based, is easy to apply and provides a breathable, dirt- and stain-resistant water-repellency for the protection of concrete surfaces.

### FEATURES AND BENEFITS

- Penetrates deep into the substrate for long-lasting protection
- Improves cleanliness of concrete by reducing dirt pickup
- Provides fast-beading water repellency; helps to protect concrete from such moisture-related problems as staining and freeze/thaw damage
- *Planiseal WR* is breathable, allowing interior moisture to escape.
- Water-based composition provides low odor and VOC compliance.
- Reduces efflorescence

### INDUSTRY STANDARDS AND APPROVALS

<u>LEED (Version 3.0) Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials* .....	Up to 2 points
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants .....	1 point

\* Using this MAPEI product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

### WHERE TO USE

- Properly prepared sound and stable concrete substrates (at least 28 days old)
- Concrete driveways and sidewalks, concrete pavers and block
- Use on vertical or horizontal surfaces.

### LIMITATIONS

- *Planiseal WR* can be applied from 45°F to 95°F (7°C to 35°C).
- For optimum installation, do not work in direct sunlight or on hot concrete.
- Not for use on polished stone or low-porosity substrates
- Do not use on substrates before bonding sealants and mortars.
- Not for use as a waterproofing system
- Do not use on painted surfaces.
- Do not apply if rain is anticipated within 8 hours of application.
- Protect from freezing.
- *Planiseal WR* may highlight or darken certain aggregates or aspects of the substrate. Complete a test area to verify final appearance and performance before complete installation.

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



## SUITABLE SUBSTRATES

- Properly prepared concrete substrates at least 28 days old
- Porous concrete masonry, bricks and pavers
- Porous stone

## SURFACE PREPARATION

- All substrates must be structurally sound, dry, solid and stable. Remove all dust, efflorescence, oil, dirt and any other contaminants before application.
- *Planiseal WR* will not seal cracks or voids.
- Complete all restoration work before application of *Planiseal WR*. Allow recently repaired areas of mortar 72 hours of curing time before application.
- Avoid any areas (or mask areas) where caulking or sealants will be applied after *Planiseal WR* is applied. *Planiseal WR* may interfere with the bond of these materials.
- Sealants should have at least 12 hours of curing time before being exposed to *Planiseal WR*.
- Surface cleanliness is crucial for achieving blemish-free results.
- Surface must be free from frost.
- Surfaces that have been exposed to water (such as rainfall) require at least 2 to 3 days for concrete to dry before *Planiseal WR* is applied.

## MIXING

Note: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

- Agitate/shake before use to ensure that no settling has taken place.

## PRODUCT APPLICATION

1. Protect all areas where overspray is not desired, including glass, metal and plastic building components, as well as plants and landscaping. Remove overspray from building components with soapy water before material dries.
2. Apply when surface and ambient temperatures are between 45°F and 95°F (7°C and 35°C), and when temperature will not drop below 40°F (4°C) within 4 hours after application.
3. Agitate *Planiseal WR* before pouring into sprayer.
4. Use a low-pressure sprayer with an adequate delivery tip so that the surface to be treated is properly wetted during application.
5. Apply a light mist of *Planiseal WR* to break surface tension before main application.

6. Apply in a consistent manner with a low-pressure sprayer or brush, ensuring adequate overlap of material when applying. Saturate surface allowing for a rundown of 8" to 10" (20 to 25 cm). On a vertical surface, start at the bottom and work up.
7. Ensure that surface, whether vertical or horizontal, is completely wetted out in one application (subsequent applications may not be effective).
8. Clean tools immediately after use with soap and water.

**Product Performance Properties**

Laboratory Tests	Results
Chemical composition	Silane/siloxane blend
VOCs	< 99 g/L
pH	4 to 6
Density	1.02 g/cc
Consistency	Pourable liquid
Color	White – dries clear
Reduction of water penetration at 3 hours	100% vs. untreated block (RILEM 11.4 )†
Reduction of water penetration at 24 hours	> 95% vs. untreated block (RILEM 11.4 )†
Water absorption at 24 hours	Approximately 0.01 U.S. oz. (0.18 mL) (RILEM 11.4 )†

† Multiple samples indicate an average penetration/absorption of water at designated time on concrete block.

**Shelf Life and Application Properties**

Shelf life	1 year when stored in cool, dry place above 40°F (4°C). Protect from freezing.
Drying time at 73°F (23°C)	3 to 6 hours
Flash point (Seta)	> 212°F (100°C)

**CSI Division Classifications**

Water Repellants	07 19 00
------------------	----------

**Packaging**

Product Code	Size
46468	5 U.S. gals. (18,9 L)

**Approximate Product Coverage\*** per 1 U.S. gals. (3,79 L)

Substrate Type	Recommended Application Method	Coverage*
Concrete	Low-pressure sprayer, brush or roller	200 to 300 sq. ft. (18,6 to 27,9 m <sup>2</sup> )

\* Coverage varies depending on the porosity of the substrate.

Refer to MAPEI's Material Safety Data Sheet (MSDS) for specific data related to VOCs, health and safety, and handling of product.

## STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **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.**

We proudly support the following industry organizations:



**MAPEI Headquarters of the Americas**  
1144 East Newport Center Drive  
Deerfield Beach, Florida 33442  
Phone: 1-888-US-MAPEI  
(1-888-876-2734)

**Technical Services**  
1-800-992-6273 (U.S. and Puerto Rico)  
1-800-361-9309 (Canada)

**Customer Service**  
1-800-42-MAPEI (1-800-426-2734)

**For the most current product and warranty data, visit [www.mapei.com](http://www.mapei.com).**

**Edition Date:** December 1, 2009

PR5775 PWRD\_L09Evp © 2009 MAPEI Corporation.  
All Rights Reserved. Printed in the USA.