

Planiseal WR

Penetrating, Water-Based, Silane/Siloxane Water Repellent



DESCRIPTION

Planiseal WR is a silane/siloxane-blend, water-repellent, transparent sealer that provides resistance to water, dirt and chlorides.

FEATURES AND BENEFITS

- Penetrates deep into the substrate for long-lasting protection
- Improves cleanliness of concrete by reducing dirt pickup
- Provides water repellency to concrete and masonry
- *Planiseal WR* is breathable, allowing interior moisture to escape.
- Water-based composition provides low odor and VOC compliance.
- Reduces efflorescence

WHERE TO USE

- Concrete driveways and sidewalks, concrete pavers and block
- Use on vertical or horizontal surfaces.

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, existing paints, 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 to cure for 72 hours before *Planiseal WR* 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 cure for at least 12 hours before being exposed to *Planiseal WR*.
- Surface cleanliness is crucial for achieving blemish-free results.
- Substrates that have been exposed to water (such as rainfall) should be left to dry before application of *Planiseal WR*.

MIXING

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

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

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

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 the 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 the surface, whether vertical or horizontal, is completely wetted out in one application (otherwise, subsequent applications may not be effective).

CLEANUP

- Use soap and water to clean tools immediately after use.

LIMITATIONS

- *Planiseal WR* can be applied at temperatures from 45°F to 95°F (7°C to 35°C).
- Do not dilute.
- 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 product
- Do not use on painted surfaces.
- Do not apply if rain is anticipated within 8 hours of application.
- Protect from freezing. If the product freezes, discard it in accordance with local, state/provincial and federal regulations.
- *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 of the product.

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

Product Performance Properties

Laboratory Tests	Results
Chemical composition	Silane/siloxane blend
pH	4 to 6
Density	1.02 g per cm ³
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. or 0.18 mL (RILEM 11.4)*
Flash point – ASTM D3278	> 201°F (94°C)
VOC content (SCAQMD Rule 1113)	< 350 g per L
Typical VOC content per SCAQMD Rule 1113	0 g per L

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

Shelf Life and Product Characteristics

Shelf life	1 year when stored in original, unopened packaging at above 40°F (4°C)
Consistency	Pourable liquid
Color	White (dries clear)
Drying time at 73°F (23°C)	3 to 6 hours

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.

CSI Division Classification

Water Repellants	07 19 00

Packaging

Size
Pail: 5 U.S. gals. (18.9 L)

Approximate Coverage**

Size	Coverage
Per 1 U.S gal. (3.79 L)	100 to 150 sq. ft. (9.29 to 13.9 m²)

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

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 (USA) or 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. **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

MAPEI Headquarters of North America

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

Technical Services

U.S. and Puerto Rico:
Flooring: 1-800-992-6273
Concrete and heavy construction: 1-888-365-0614
Canada:
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-BACKEDSM warranty information,
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