



Planiseal[®] WR 100

**Clear, 100%-Silane
Penetrating Water Repellent**



DESCRIPTION

Planiseal WR 100 is a clear, high-performance, 100%-silane penetrating water repellent and sealer designed to provide outstanding water repellence on concrete and masonry. It penetrates deeply, protecting new and existing substrates against moisture/chloride intrusion, the effects of freezing/thawing, and such airborne contaminants as acid rain and industrial fumes. *Planiseal WR 100* is breathable, allowing interior moisture to escape without affecting its performance. Plus, the product is transparent and non-staining, and will not alter the surface appearance. *Planiseal WR 100* provides long-lasting protection to horizontal and vertical surfaces.

FEATURES AND BENEFITS

- 100%-silane, protecting against water absorption and chloride ion intrusion
- Colorless and does not alter surface appearance or texture
- Breathable, allowing interior moisture to escape
- Easy-to-apply, one-component water repellent

INDUSTRY STANDARDS AND APPROVALS

<u>LEED v3 Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials*	Up to 2 points
IEQ Credit 4.2, Low-Emitting Materials – Paints & Coatings	1 point

* Using this 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

- Parking, bridge and stadium decks
- Sidewalks and ramps
- Above-grade, interior/exterior, horizontal and vertical surfaces
- New and existing concrete, block, stone and brick

LIMITATIONS

- Apply *Planiseal WR 100* when ambient, material and surface temperatures are in the range of 20°F to 95°F (-7°C to 35°C).
- Do not use on below-grade applications or other applications where hydrostatic pressure exists.
- Do not apply *Planiseal WR 100* to a frost-filled surface or when temperatures are below 20°F (-7°C).
- Do not allow puddling or surface buildup of *Planiseal WR 100*.
- Store at temperatures between 20°F and 95°F (-7°C and 35°C).
- Do not apply *Planiseal WR 100* in inclement weather, or when rain is anticipated within 12 hours of application.
- Protect the product from freezing. If it freezes, discard it in accordance with local, state/provincial and federal regulations.
- Do not dilute *Planiseal WR 100*.

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



SUITABLE SUBSTRATES

- Existing and new, properly prepared and cured concrete substrates at least 28 days old, as well as block, stone and brick substrates

SURFACE PREPARATION

- All substrates must be structurally sound, dry, solid and stable.
- Remove all dust, efflorescence, oil, dirt, curing compounds, form release agents and any other contaminants before application.
- Power-wash to achieve a clean condition.
- Ensure that surfaces are dry for at least 24 hours before installation of *Planiseal WR 100*, to allow maximum penetration of the product.
- *Planiseal WR 100* will not seal cracks or voids. Crack control, patching and expansion joint filling should be performed before application of *Planiseal WR 100*.
- Mask all adjacent surfaces to prevent overspray or dripping.
- Allow recently repaired areas of mortar to cure for 72 hours before application of *Planiseal WR 100*. Before exposure to *Planiseal WR 100*, sealants should cure in accordance with the manufacturer's recommendations.

MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet (SDS) for details.

- *Planiseal WR 100* is ready to use. Stir the product thoroughly before and during application.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Apply *Planiseal WR 100* by a low-pressure, non-atomizing spray with an adequate delivery tip so that the surface being treated is properly wetted during application.
2. Alternatively, for horizontal surfaces, *Planiseal WR 100* can be poured and evenly distributed with a roller or broom.
3. For applying *Planiseal WR 100* on vertical surfaces, start from the bottom of the wall and work upward.
4. Evenly apply *Planiseal WR 100* onto the surface in a single application with a low-pressure sprayer, roller or broom, ensuring an adequate overlap and penetration of material. Avoid puddling, and remove any excess material with a broom.
5. If the surface is extremely porous, apply a second coat before the surface dries but once the first application has been completely absorbed. Avoid puddling.

CLEANUP

- Clean tools immediately after use with mineral spirits, xylene or a similar solvent. Drips and overspray should be cleaned while still wet.

Product Performance Properties

Laboratory Tests	Results
Depth of penetration	0.2" (5 mm)
Chloride reduction (5-day air-dry) per NCHRP Report 244, Series II	91.1%
Water absorption (5-day air-dry) per NCHRP Report 244, Series II	86.1%
Chloride reduction per NCHRP Report 244, Series IV	85.2%
Waterproofing after abrasion per Alberta B388, Type 1b	82.2%
Moisture vapor transmission per Alberta B388, Type 1b	88.8%
Scaling (ASTM C672)	0 rating (no scaling at 75 cycles)
Accelerated weathering per NCHRP Series IV (Southern)	No change

Shelf Life and Product Characteristics (before mixing)

Shelf life	2 years when stored in original, unopened packaging at 20°F to 90°F (-7°C to 32°C)
Chemical composition	100% silane
VOCs (Rule #1113 of California's SCAQMD)	< 350 g per L
Active ingredients, by weight	100%
Density	7.3 lbs. per U.S. gal. (0,87 kg per L)
Consistency	Liquid
Color	Clear
Flash point	145°F (63°C)

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

Drying time at 73°F (23°C) at 50% relative humidity	4 hours
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Packaging

Size
Pail: 5 U.S. gals. (18,9 L)
Drum: 55 U.S. gals. (208 L)

Approximate Coverage* per 1 U.S. gal. (3,79 L)

Substrate Type	Recommended Application Method	Coverage
Concrete/brick	Low-pressure sprayer, roller or broom	200 to 375 sq. ft. (18,6 to 34,8 m ²)

* Coverage varies depending on the porosity of the substrate.

CSI Division Classification

Water Repellents	07 19 00
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**Planiseal®
WR 100**



Refer to the SDS for specific data related to health and safety as well as product handling.

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:



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For the most current BEST-BACKED™ product data and warranty information, visit www.mapei.com.

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