

Planiseal WR 100

Clear, 100%-Silane, Penetrating Water Repellent



FOR PROFESSIONAL USE ONLY

DESCRIPTION

Planiseal® WR 100 is a clear, high-performance, 100%-silane, penetrating water repellent and sealer designed to provide water repency on concrete and masonry. It penetrates deeply, protecting new and existing substrates against moisture/chloride intrusion.

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

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

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

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet 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 (of 8" to 10", or 20 to 25 cm) 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.

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 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*.
- Not for use as a waterproofing product

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

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%
Reduction in 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
VOCs (Rule #1113 of California's SCAQMD)	< 350 g per L
Active ingredients, by weight	100%
Density	0.87 g per cm ³
Flash point	145°F (63°C)

Shelf Life and Product Characteristics

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
Consistency	Liquid
Color	Clear
Drying time at 73°F (23°C) and 50% relative humidity	4 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
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Packaging

Size
Pail: 5 U.S. gals. (18.9 L)
Drum: 55 U.S. gals. (208 L)
Tote: 261.5 U.S. gals. (989.8 L)

Approximate Coverage*

Size	Coverage
Per 1 U.S. gal. (3.79 L)	200 to 375 sq. ft. (18.6 to 34.8 m ²)

* Coverage varies depending on the porosity of the substrate.

ADDITIONAL INFORMATION

Refer to the 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).

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

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Customer Service

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