



PLANISEAL WR
Penetrating Water-Based Silane/Siloxane Water Repellent

SECTION 07 19 00
Water Repellents

PART 1 GENERAL

1.1 SUMMARY

- A. Products for a fast-beading water repellency for concrete, brick, stone and grout.

1.2 RELATED SECTIONS

- A. Section 03 30 00 – Cast-in-Place concrete
- B. Section 03 40 00 – Pre-cast concrete

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Submit manufacturer's data sheets and safety data sheets (SDS) on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Samples: Submit samples of specified traffic deck system. Samples shall be construed as examples of finished color and texture of the system only.
- D. Warranty: Submit copy of manufacturer's standard warranty.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 5 years' experience manufacturing similar products.
- B. Applicator Qualifications: Minimum 2 years' experience installing similar products.
- C. Field Sample:
 - 1. Install a sizeable field sample at the discretion of the engineer of record (EOR).
 - 2. Apply material in accordance with manufacturer's written application instructions.
 - 3. Field sample will be standard for judging color and texture on remainder of project.
 - 4. Maintain field sample during construction for workmanship comparison.
 - 5. Do not alter, move, or destroy field sample until work is completed and approved by owner's representative.
- D. Requirement of Regulatory Agencies: comply with applicable codes, regulations, ordinances and laws regarding use and application of coating systems.

1.5 PRE-INSTALLATION MEETINGS

- A. Convene at least two weeks prior to starting work of this section.

1.6 DELIVERY, STORAGE AND HANDLING



- A. Deliver: Materials shall be delivered in original sealed containers, clearly marked with supplier's name, brand name, type of material and legible lot number.
- B. Storage and Handling: Recommended material storage temperature is 75°F (24°C). Handle products to prevent damage to container. All materials shall be stored in compliance with fire and safety requirements. Do not store at high temperatures or in direct sunlight.

1.7 PROJECT CONDITIONS

- A. Prior to starting work, read and follow the Safety Data Sheet (SDS) and container labels for detailed health and safety information.
- B. Do not proceed with application of material when surface temperature is less than 40°F (4°C) or if precipitation is imminent. Ambient temperature should be a minimum 40°F (4°C) and rising, and more than 5 degrees Fahrenheit (2.8 degrees Celsius) above dew point. Special precautions are to be taken when ambient and/or surface temperature are approaching, at or above 100°F (38°C), and it may be necessary to limit material application to evening hours for exterior exposed decks.
- C. Coordinate waterproofing work with other trades. Applicator shall have sole right of access to the specified area for the time needed to complete the application and allow the vehicular traffic coatings to cure adequately.
- D. Protect plants, vegetation and other surfaces not to be coated against damage or soiling.
- E. Maintain work area in a neat and orderly condition, removing empty containers, rags and rubbish daily from the site.

1.8 WARRANTY

- A. Upon request, MAPEI shall offer a manufacturer's standard warranty for institutional, commercial, industrial and high-rise/multi-family residential projects only. A properly submitted warranty request form shall be submitted prior to start of project.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Product Performance:

VOCs	< 99 g per L
pH	4 to 6
Color	White – dries clear
Water absorption at 24 hours	Approximately 0.01 U.S. oz. (0.18 mL)
- B. Acceptable Manufacturer:

MAPEI North America
1144 E. Newport Center Dr.; Deerfield Beach, FL 33442
Toll-Free for CRS Technical Services: Tel. 888-365-0614
Email: CRS@mapei.com
Web: www.mapei.com
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
- D. Substitutions: Not permitted.



2.2 WATER REPELLENTS

- A. Silane/siloxane-blend, water-repellent transparent sealer for porous concrete, brick, stone and grout.
 - 1. Product: Subject to compliance with requirements, provide MAPEI Corporation; Planiseal WR.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Properly prepared concrete at least 28 days old, stable, sound and dry.
- B. Porous concrete masonry, bricks and pavers.
- C. Porous stone.

3.2 PREPARATION

- A. All substrates must be structurally sound, dry, solid and stable. Remove all dust, efflorescence, oil, dirt and any other contaminants before application.
- B. Planiseal WR will not seal cracks or voids.
- C. Complete all restoration work before application of Planiseal WR. Allow recently repaired areas of mortar to cure for 72 hours before Planiseal WR application.
- D. 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.
- E. Sealants should cure for at least 12 hours before being exposed to Planiseal WR.
- F. Surface cleanliness is crucial for achieving blemish-free results.
- G. Surfaces must be free from frost.
- H. 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.

3.3 MIXING

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

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

3.4 INSTALLATION

Read all installation instructions thoroughly before installation.

- A. Protect all areas where overspray is not desired, including glass, metal and plastic components, as well as plants and landscaping. Remove overspray from building components with soapy water before material dries.
- B. 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.



- C. Use a low-pressure sprayer with an adequate delivery tip so that the surface to be treated is properly wetted during application.
- D. Apply a light mist of Planiseal WR to break surface tension before main application.
- E. 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.
- F. Ensure that surface, whether vertical or horizontal, is completely wetted out in one application (subsequent applications may not be effective).
- G. Allow to cure at least 72 hours before opening to traffic.

END OF SECTION