# WC MEMBRANE SEALANT

PRODUCT TECHNICAL DATA SHEET

**PPC WC MEMBRANE SEALANT** is a rapid-setting, moisture-reactive elastic membrane designed for high-tier interior and exterior sealing. Functioning as both a potent adhesive and a protective coating, it is optimized for roofing systems and subsurface waterproofing projects. This solution ensures a durable, climate-resistant bond across a wide array of standard construction surfaces.

## WHERE TO USE

- Cost-Effective: High-value solution for project budgets.
- Easy to Apply: Streamlined for simple, intuitive installation.
- Superior Weatherability: Outstanding resistance to environmental exposure and UV.
- Anti-Soiling: Engineered to repel dirt and maintain a clean finish.
- Moisture-Tolerant Adhesion: Capable of bonding directly to damp concrete or stone.
- Single-Component: Ready to use straight from the container; no stirring or blending needed.
- Productivity-Focused: Minimizes installation time and man-hours.
- Self-Priming: Requires no separate primer on the majority of construction surfaces.
- Odor-Neutral: Ideal for use in confined spaces or sensitive environments.
- Stable Curing: Non-gassing formula prevents bubbling or void formation during setting.
- Rapid-Setting: Accelerated cure time for faster project turnaround.
- High-Build Capability: Can be installed at any desired depth or thickness in a single pass.
- Thermal Resilience: Retains maximum elasticity even in severe temperature fluctuations.
- ASTM Certified: Fully compliant with the performance standards of ASTM C-836 and E-96.
- Eco-Compliant: Meets or exceeds the rigorous SCAQMD VOC air quality regulations.

## ADVANTAGES

- Subsurface Sealing: Designed for non-exposed waterproofing layers.
- Below-Grade Concrete: Ideal for protection beneath concrete slabs.
- Vegetated Structures: Optimized for sealing planter boxes and green roof systems.
- Graded Subsurfaces: Effective for waterproofing sloped areas prior to tile installation.
- Structural Enclosures: Suitable for parapet walls and vertical transitions.
- Roof Restoration: Can be used as a protective coating over Built-Up Roofing (BUR), Single-Ply, or SBS Modified Bitumen systems.
- Substrate Versatility: Bonds effectively to PVC, standard block, and masonry.
- Expansion Joint Sealing: Accommodates movement in structural joints.
- Concrete Remediation: Used for filling potholes and repairing spalled or degraded concrete.
- Surface Prep: Excellent for leveling irregular planes or waterproofing over existing smooth surfaces and old tile.

## THEORETICAL COVERAGE RATES

The prescribed application thickness for **PPC WC MEMBRANE SEALANT** is a minimum of **30 mils (762 microns)** when utilized as a bonding membrane or as a protective roof coating. For more demanding environments, such as **planter boxes** or **subterranean (below-grade) waterproofing**, a higher build of at least **60 mils (1,524 microns)** is required to ensure optimal performance.

## PACKAGING & COLORS

**PPC WC MEMBRANE SEALANT** is available in 2 gallon and 5 gallon pails

Color: Single Component: Limestone and Grey

## MIXING

Mix well before using until a uniform consistency and color is achieved. A power mixer is recommended for quantities larger than one gallon.

## SHELF LIFE AND STORAGE

12 months from the date of manufacture in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards. store in unopened containers between 60 – 95° F (15 – 35° C).

## CERTIFICATIONS

- ASTM C-920, Type S, Grade NS, Class 25, use NT, T, M, G, A, and O
- Federal Specification TT-S-00230-C Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- Canadian Standards Board CAN 19

## PHYSICAL/CHEMICAL CHARACTERISTICS

| | |
|---|---|
| Specific Gravity | A-Side: 1.60 + 0.1 |
| Viscosity at 80ºF (26°C) | 40,000 cps Brookfield RVFTF spindle 4 RPM, 73°F (23oC) |
| Service Temperature | -25°F to 200°F (-31.7°C to 93.3°C) |
| Tear Resistance, Die C, ASTM D-1002 | 150 ± 10 psi (21 ± 3.5 kN/m) |
| Total Solids by Weight, ASTM D-236 | 100% |
| Total Solids by Volume, ASTM D-2697 | 100% |
| Hardness, ASTM D-2240 Shore A | 30 ± 5 |
| Elongation at Break, ASTM D-412 | 300-400% ± 50 psi |

## OVERVIEW OF INSTALLATION STEPS

**Mandatory Mockup:** A 100-200 sq/ft mockup should be installed as a guide for installation and quality control panel days or weeks before the actual installation of the coating system. The mockup should be approved by an authorized representative of the Property Management for Slip Resistance, aesthetics, and functionality.

**Installation Guidelines**

**PPC WC MEMBRANE SEALANT** is a single-component product that can be applied directly from the container or moisture-accelerated by incorporating 4 to 5 ounces of water per gallon. To achieve precise thickness and effortless delivery, the use of a high-grade caulking gun is advised. Installation should only occur when ambient temperatures exceed 40°F (4.4°C).

Once the substrate is fully prepared, dispense the sealant as an adhesive or coating at the specified depth. This formula is engineered for stability in vertical and overhead orientations without sagging. For high-build applications exceeding 20 mils (508 microns), or when facing volatile

weather that requires rapid setting, water-curing the mixture is recommended.
In pedestrian traffic zones, this material serves as a primary adhesive for Detailing Membrane on both upright and flat surfaces. It is also ideal for pre-treating joints, fissures, irregular textures, or depressions before the final flashing is installed.

**Substrates:**
*Metal*:
Prepare all metal in a manner to ensure maximum adhesion. Remove all rust, scale and residue by xylene or acetone wipe. Remove films, coatings and oils with an appropriate solvent.
Note: It is recommended that Kynar-coated substrates be tested for adhesion prior to starting the project. Please contact PPC for specific application guidelines and recommendations.

*Concrete*:
New concrete and masonry substrates must be cured 14 days prior to the application of the sealant or coating. Remove any contamination by mechanical abrasion, sand blasting or power washing.

*Wood*:
Wood shall be clean, sound and dry prior to sealant application. Treated wood shall be allowed to weather for 6 months. Coatings and paint must be removed (or tested for compatibility) to ensure a proper bond.

No grinding or surface profile is needed when **Premera FP1 Fusion Primer** is used

**Curing**
**PPC WC MEMBRANE SEALANT**, when mixed with water, cures to a firm dense skin in approximately 2 hours at Room Temperature and 50% RH. Faster cure times may occur in high humidity combined with higher temperatures. Likewise, slower cure times may occur in lower humidity and lower temperatures.

**PPC WC MEMBRANE SEALANT** coating and sealant is slower to cure when used without water, from one to two days. **PPC WC MEMBRANE SEALANT** typically skins over within 15-45 minutes and cures throughout in 2-6 hours, depending upon temperature, humidity and thickness. Lower temperatures and humidity prolong cure time. Higher temperatures accelerate cure time.

**Clean up**
Equipment should be cleaned immediately after use with an environmentally safe solvent, as permitted under local regulations.

**Limitations**
• **PPC WC MEMBRANE SEALANT** should not be used in direct contact with single component moisture cure urethane coatings without use of an epoxy primer or a sand broadcast over the wet sealant.
• **PPC WC MEMBRANE SEALANT** shall be cured for 3-5 days prior to any direct coating with water cured.
• Avoid prolonged contact with skin.
• Uncured adhesive irritates eyes.
• In case of contact with eyes, immediately flush with water and call a physician.
• **PPC WC MEMBRANE SEALANT** should not be used in direct contact with wet or uncured single component urethane sealants.

**CAUTION! Roof surfaces may become slippery when wet.**

## LIMITED WARRANTY

PPC warrants its products to be free of manufacturing defects and that they will meet PPC current published physical properties. PPC warrants that its products, when properly installed by a state licensed contractor according to PPC guide specifications and product data sheets over a sound, properly prepared substrate, will not fail for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PPC of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PPC shall not be liable for damages of any sort, including remote or consequential damage resulting from any claimed breach of any warranty whether expressed or implied. PPC shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PPC reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

## DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PPC makes no claim that these tests or any other tests, accurately represent all environments. For further information please contact us at the following email address: orders@premierprotectivecoatings.com or visiting www.premierprotectivecoatings.com

## DISPOSAL

Any surplus material, including both Part A and Part B components, should be combined and allowed to cure. Upon curing, the product can be disposed of without any restrictive conditions. Uncured materials should be securely stored in an appropriate sealed container and disposed of in strict adherence to the applicable provincial, state, municipal, and federal regulations.

## CAUTION

ALWAYS KEEP OUT OF THE REACH OF CHILDREN
KEEP FROM FREEZING CONDITIONS
INTENDED FOR INDUSTRIAL USE ONLY