

# PPC WATER BASED POLYURETHANE

## PRODUCT TECHNICAL DATA SHEET

**PPC WATER BASED POLYURETHANE** is a high-performance water-based polyurethane coating. Product is specially formulated for commercial and institutional floors. Product is a coating that offers supreme airdry resistance. **PPC WATER BASED POLYURETHANE** enhances the beauty of wood and your epoxy coatings without yellowing. It also provides additional protection to your existing epoxy coating systems.

### PRODUCT DESCRIPTION

Product has excellent mechanical and chemical properties, making it an ideal choice for applications requiring increased resistance. The product offers adequate working time, making application easier. Product is self-priming, so no additional primer is needed. The formulation of Product is based on the latest technological advancements, offering excellent properties and impeccable aesthetic finish.

Product protects and seals your wood floors, or any other existing surface coated with an epoxy coating. Product is a transparent coating offering superior resistance and is a perfect solution to add value to your floors.

### WHERE TO USE

- |                  |                 |
|------------------|-----------------|
| • Gymnasiums     | • Commercial    |
| • Schools        | • Institutional |
| • Restaurants    | • Living Rooms  |
| • Retail Stores  | • Dining Rooms  |
| • Shopping malls | • Vestibules    |
| • Offices        | • Stairs        |
| • Hotels         | • Playrooms     |
| • Residential    | • Countertops   |

### ADVANTAGES

- |                                  |                                      |
|----------------------------------|--------------------------------------|
| • Supreme Resistance.            | • Non-flammable                      |
| • Slip Resistance (ASTM D-2047)  | • No NMP                             |
| • 3 Finishes (Matte-Satin-Gloss) | • Mold Resistant                     |
| • High Abrasion Resistance       | • Solvent-Free                       |
| • Easy Maintenance               | • Safe for Food Contact              |
| • Low VOC Content                | • Excellent Elongation               |
| • Easy Installation              | • Best UV Resistance in the Industry |

### PACKAGING & COLORS

Packaging: 1gal  
Color: Clear  
Coverage: 600 sq ft per gal

### MIX RATIO

PPC Water Based Polyurethane is a single-component product, it is recommended to follow the mixing recommendations described below.

### SHELF LIFE AND STORAGE

12 months in original unopened factory sealed containers. Store in dry cool place between 50 and 85°F (10 and 30°C). Keep out of direct sunlight and away from fire hazards.

### RESTRICTIONS

- Do not use product that has begun to harden.
- Do not use at low temperature.
- Do not apply more than 8 Mils thick.
- Do not use crystallized material.
- Do not use in high humidity conditions.
- Not designed for wet areas (showers, sinks, etc.).
- Not designed for vehicular traffic.
- The curing time of this product will depend on the thickness.

- Curing times can vary significantly depending on the amount poured at once, temperature, humidity, and application method.
- If applied at low temperatures, the product may not cure properly. We strongly recommend performing tests before carrying out the work.
- In direct contact with a heat source, heating the product to avoid bubbles could also create an exothermic reaction.
- Requires a dry substrate. This product should not be applied to substrates with high levels of moisture/humidity. The moisture content of the substrate must be <4% before applications.
- Not suitable for outdoor applications.

### PHYSICAL/CHEMICAL CHARACTERISTICS

|                                    |                                                                         |
|------------------------------------|-------------------------------------------------------------------------|
| Reflection rate.....               | Gloss= 60%, Satin= 40%, Matte= 5%                                       |
| Odor.....                          | Low and non-offensive                                                   |
| Drying times*                      |                                                                         |
| Touch.....                         | 1hour                                                                   |
| Recoat.....                        | 3 to 4 hours (with ventilation)<br>6 to 8 hours (without ventilation)   |
| Light traffic.....                 | 4 to 6 hours (with ventilation)<br>12 to 24 hours (without ventilation) |
| Furniture.....                     | 24 to 48 hours (with ventilation)<br>72 hours (without ventilation)     |
| Full cure.....                     | 7 days                                                                  |
| Catalyzed Mix Life.....            | 12 hours                                                                |
| Chemical resistance .....          | Excellent                                                               |
| Taber Abrasion Test Mass Loss..... | 8mg<br>(ASTM D4060 with CS-17 abrasive wheel)                           |
| Solids Content.....                | 30% (by weight) – 27% (by volume)                                       |
| pH.....                            | 8.2 ± 0.4                                                               |
| VOC Content.....                   | 272 g/L                                                                 |
| Viscosity.....                     | 23 to 25 seconds (Zahn #2)                                              |
| Density.....                       | 1.04 - 1.05 kg/L                                                        |
| Freeze-Thaw Stability.....         | Susceptible to freezing                                                 |
| Tool Cleanup.....                  | Water                                                                   |
| USDA/FDA/CFIA.....                 | Meets standards                                                         |

### PROPERTIES @ 70° - 77°F (21 - 25°C) AND 35 - 50% R.H.

\* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.  
\* The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material to cover the same mileage.

## 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.

**Surface Preparation:** All surfaces are not the same. It is recommended to create a sample area before starting the project. A sample area should also be done on all existing coatings and/or substrates to determine if there are contaminants or if delamination will occur.

For a surface coated with epoxy, ensure that the surface is cured, dry, and the work has been done according to the coating used. Before applying the coating, all surfaces must be:

- Dry - No wet areas (<4%)
- Clean - Free of any contaminants, grease, oil, paint, curing agents, dust, loose coating, and remove any other contaminants that could prevent good adhesion.

### Mixing:

1. Shake the gallon well.
2. Open it and mix with a drill for 2 minutes.
3. Close the container again and wait for 8 to 10 minutes.
4. Pour it into a pan, and it's ready to use

### Application:

Commercial — High/Traffic Intensive: 3 coats  
Residential — High Traffic: 3 coats  
Restoration — High/Medium Traffic: 2 coats  
Protection — Medium/Light Traffic: 1-2 coats

For best results, turn off all ventilation in the room. If ventilation cannot be turned off, block all ducts to minimize air movement in the room.

1. Remove dust with a vacuum cleaner or damp towels and hot water and/or denatured alcohol and/or isopropyl alcohol. NOTE: Sanding is not necessary before the final coat if the time between the last two applications does not exceed 4 hours.
2. Wash tools with water.
3. Pour product into a paint tray and soak the roller.
4. Apply product by rolling evenly (East/West and North/South). To avoid application marks, DO NOT apply pressure on the roller and smooth marks and lines as you go using a flying motion.
5. Continue this way over the entire surface.
6. Using the roller, remove excess coating and finish the application by smoothing marks and lines.
7. Wait 3-4 hours of drying time between coats (may vary depending on ambient conditions and whether the catalyst is used\*).
8. Remove dust with a vacuum cleaner or damp towels and hot water and/or denatured alcohol. Do not sand before the final coat if the time between the last two applications does not exceed 48 hours. Clean tools with water.

To optimize the coating's performance, it is important to wait for full curing before performing the first wet cleaning.

- After 4 hours of drying, light pedestrian traffic is allowed.
- Wait 7 days before replacing carpets and rugs.
- It is possible to have traffic after 24 hours, but the floor may scratch or mark.

The maturation process must be respected. Drying and curing times mentioned in this document may vary depending on application conditions: lower temperature, higher humidity, or a greater product

thickness on the floor may slow down the drying and curing processes and change its intended finish (milky, orange peel, etc.).

### Cleaning

Clean all application equipment with a specified cleaner. Once the material hardens it can only be removed mechanically. If the product splatters, wash thoroughly with hot soapy water.

## HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation. \*Consult the material safety data sheet for further information. \*

### LIMITATIONS:

Avoid contact with single component may cause skin and/or eye irritation. In case of contact, immediately flush area with copious amounts of clean water for at least 15 minutes. Seek medical attention. Applicators should cover hands with impervious gloves. Wash hands thoroughly with soap and water after use, and before eating, smoking, etc.

### 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 damages 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](mailto:orders@premierprotectivecoatings.com) or visiting [www.premierprotectivecoatings.com](http://www.premierprotectivecoatings.com)

#### **DISPOSAL**

Excess material should be mixed and allowed to harden. Hardened product can be disposed of without restriction. Unhardened materials should be stored in an appropriate container and sealed and can be disposed of in accordance with estate, municipal, and/or federal regulations.

#### **CAUTION**

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