

PPC HYBRID POLYURETHANE POLYUREA 421

PRODUCT TECHNICAL DATA SHEET

PPC Hybrid Polyurethane Polyurea 421 is a two component, no odor, fast setting, rapid curing, solvent free*, high performance, and high solids Polyurea/urethane waterproof membrane that can be applied to suitably for heavy duty wearing surface applications on prepared interior or exterior concrete, under pavers and asphalt overlays, over plywood and metal surfaces. Due to its fast gel time, Hybrid Polyurethane Polyurea 421 is suitable for applications in temperatures as low as 20°F. It may be applied in a single thickness at 250+ mils on one pass. Hybrid Polyurethane Polyurea 421 is also relatively insensitive to moisture and temperature allowing applications in various temperatures and humidity. When **Premera FP1 Fusion Primer** is included, minimal surface preparation is required on sound and stable surfaces, no shotblasting, no grinding or scarifying is required.

WHERE TO USE

- Vehicular Asphalt and Concrete Parking Decks.
- Portico Waterproofing.
- Exterior and Interior Waterproofing Traffic Areas
- Walkways, Patio's and Stairways
- Under Pavers and Tile
- Plaza Deck Waterproofing System
- Mechanical Room
- Heavy Elastomeric Duty Flooring
- Basketball Courts
- Under Asphalt Overlay
- Block and Masonry

ADVANTAGES

- Under Pavers & Asphalt Paving
- Excellent Weathering
- Seamless
- Labor Saving
- May be applied at any thickness in one pass
- Meets the Criteria of AS C-836 & E-96
- Non-Gassing
- User Friendly
- Fast Curing
- Resists Dirt Attraction
- Good Thermal Stability
- Highly Flexible over extreme temperatures
- No Odor -
- Recoatable
- Meets SCAQMD VOC Requirements
- Excellent Low Temperature Flexibility
- Slopes to drain
- No Back-rolling Required
- No Irregular aggregate dispersion
- Aesthetically Beautiful
- Low Temperature Curing down to 20degrees

COVERAGE RATES

PPC Hybrid Polyurethane Polyurea 421 may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1520 sq. ft. As a standalone system, the Hybrid Polyurethane Polyurea 421 should not be applied less than 35 mils on exposed concrete and 45 mils under asphalt overlays. Asphalt and under pavers require a sand broadcast to 90% refusal of 16-20 mesh aggregate. All joints and cracks should be treated with Max Tape Fabric Tie-TEX 325, 272 or 292 fabric or equal. When used under pavers no protection board is required. Under pavers application requires a minimum of 90 mils of coating and crack and joint reinforcement.

PACKAGING and COLORS

Color: Medium Gray and Dark Gray. Custom colors are available upon request with minimum order quantity.

Packaging: 5-gallon kit: One 5-gallon pail (net 4 gallons) of Part-A and one 1 gallon can of Part-B.

1 gallon kit: One 1 gallon can (net 0.8gallons) of Part-A and one quart can (net 0.2 gallons) of Part-B.

MIX RATIO

PPC Hybrid Polyurethane Polyurea 421 mix ratio is 4A:1B, meaning four parts A (resin) to one part B (hardener) by volume.

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.

PHYSICAL/CHEMICAL CHARACTERISTICS

Solids by volume.....	95%
Pot Life (min @ 75°F, 50% RH).....	9 minutes
Tack Free Time.....	3-4 hours
Hardness, AS D-2240.....	80 ± 3 A
Tensile Strength AS D-412.....	2500 ± 100psi
Elongation, AS D-412	800 ± 100 %
Tear, AS D-624	300 ± 25 pli
Split Tear, AS D-470.....	100 ± 10 pli
Volatile Organic Compounds, AS D-2369-81	0.49 lb/gal gm/liter
Peel in Adhesion AS D-4541.....	327/36.7MPa

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 - Refer to general guidelines for complete information

Mixing -NOTE: PPC Hybrid Polyurethane Polyurea 421 may NOT be diluted under any circumstances. DO NOT ESTIMATE, proportions are premeasured. Using a mechanical mixer, first pre-mix separately Part-A and Part-B base material thoroughly to obtain a uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour Part-B into Part-A slowly and while mixing, scrape the sides of the container. Mix for 1-2 minutes. Box the materials. Mix the combined Part-A and Part-B mixture thoroughly until uniform color is obtained

Application - Examine the surface of the deck for small pinholes. Where pinholes exist, use PPC Hybrid Polyurethane Polyurea 421 as a fast cure

primer by mixing the Hybrid Polyurethane Polyurea 421 at a 4:1.25 mix ratio and adding approximately 10% xylene and spread with a magic trowel to fill in the pinholes. Generally, within 30 minutes, the 2nd undiluted wear coat can begin with the normal 4:1 ratio. It is important to know that normal kits of Hybrid Polyurethane Polyurea 421 are supplied at a 4:1 Base to Catalyst and that the extra catalyst used for the primer application will need to be replaced. Apply Hybrid Polyurethane Polyurea 421 Topcoat at a rate of 30 sq/ft p/gallon with a 50-mil notched squeegee.

Open side A (5-gallon pail with 4 gallons in it) and add side B (1 gallon)

1. Thoroughly mix both materials for approximately 2 to 3 minutes from bottom to the top.
2. Pour mixed material out in a stream along the short side of the deck and spread material out with a notched squeegee.
3. Grid the area making sure you are applying the adequate amount of the material in the designated area.
4. The pot-life of PPC Hybrid Polyurethane Polyurea 421 is 8-10 minutes. Throw aggregate after 12-14 minutes.
5. Apply Base Coat at 30 /sq/ft p/gallon.
6. Under Pavers the Application rate is 17 sq/ft p/gallon in one coat.

LIMITATIONS

Do not open until it is ready to use. Any off ratio mixing of the product will affect the properties and the product may not cure. This product contains Isocyanates and Curative Material. Coating must be fully cured before pouring asphalt paving.

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 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