POLYUREA BASE COAT 95

PRODUCT TECHNICAL DATA SHEET

PPC POLYUREA BASE COAT 95 is a two-component, 95 % solids, VOC compliant, polyurea hybrid that was developed as a primer/basecoat for a variety of coating systems. It provides outstanding adhesion on a large number of substrates and performs well in a wide range of temperature conditions. 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

- Aircraft hangar floors
- Automotive shops
- Bathrooms and locker rooms
- Bridge decks and pillars
- Car washes or wash bays
- Industrial shop floors
- Maintenance facilities
- Offshore platforms
- Primer/ Basecoat for use on concrete, wood, and block.
- Sidewalks and walkways
- Wall coatings over sheetrock, wood and concrete
- Wastewater treatment applications

ADVANTAGES

- VOC compliant in all 50 states and Canada.
- Long pot life (35 to 45 min)
- Long open times allow for self-leveling capabilities and increased hiding power as well as broadcasts of decorative aggregate
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate
- Emits virtually no odors and can be applied indoors
- Easy to mix 2:1 ratio
- Displays moderate cure times with excellent adhesion

THEORETICAL COVERAGE RATES

200 sq ft. per gallon at 8 WTF

PACKAGING & COLORS

Packaging: 3 Gallon
Color: Light Grey and Tan

MIX RATIO

PPC Polyurea Base Coat 95 mix ratio is 2A:1B, meaning two parts A (resin) to one part B (hardener) by volume.

SHELF LIFE AND STORAGE

12 months in original unopened factory sealed containers. Keep away from extreme cold, heat or moisture. Keep out of direct sunlight and away from fire hazards.

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 10°C / 30°C (50°F / 86°F).
- Maximum relative humidity during application and curing: 85%.
- Substrate temperature must be 3°C (5.5°F) above dew point measured.
- Humidity content of substrate must be< 4 % when coating is applied.
- Do not apply on porous surfaces where a transfer of humidity may occur during application.
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period.

PHYSICAL/CHEMICAL CHARACTERISTICS

Percentage solids by weight……95%

Mix Ratio (By Volume)……..... 2A:1B

STANDARD VISCOSITY WHITE BASE,
Mixed Polyol and Isocyanate……..……..400 - 600 cps

Mixture weight…… (9,4 lb/gal US) (density)

Pot Life……20 - 25 minutes

Dry to touch……..…… 2 - 3 hours

Foot traffic……...10 hours

Recoat Max……..…… 12 hours

Moisture Relative Humidity……...80% / ASTM F2170

Moisture vapor Emission rate…….. 3 lbs ASTM F1869

Tear Resistence……...200 psi ASTM D 1004

Tensile strength……. 3,000 psi – 30MPa /ASTM D 412

Tensile elongation……... 100% /ASTM D 412

Adhesion to Concrete ……..…400 psi /ASTM C 1583
Concrete failure

Hardness (Shore D)…….. 50 - 55 ASTM D 2240

VOCs ……< 50 g/l ASTM D3960

PROPERTIES @ 77°F (25°C) AND 55% 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 in order to cover the same mileage.
* Mechanical properties: Surface Preparation ICRI 310.2R Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete.

Note: Although testing is critical, it is not a guarantee against future problems. This is especially true if there is no vapor barrier or it is not functioning properly and/or concrete is contamination from oils, chemical spills, densifiers, excessive salts or other bond breakers

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:

- *Old concrete:* Concrete surface must be cleaned. Blastrac, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminates. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and ph levels should be checked prior to application.
- *New concrete:* The concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 mpa (3625 lbs./Inch2) after 28 days and traction resistance must be at least 1,5 mpa (218 lbs./Inch2). Blastrac, sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) is required to remove the surface laitance that appeared during the curing process.

Mixing: Materials should be pre-conditioned to a minimum of 10° C prior to use. Thoroughly mix each component separately. Pour component B into component A using the proper mixing ratio of 2A:1 B by volume. Mix both components for at least 1 minute using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

Application:
Apply mixed product on the prepared surface tightly {thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

Overlaps:
Subsequent overlaps must be applied when primer is still wet or tacky. If primer has dried reprime. Porous substrates may require multiple priming.

Cleaning:
Clean all tools and materials with appropriate cleaner before the product cures. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

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 Part A and B as they 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 PSI 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