



**POLYCOAT  
PRODUCTS**  
A Division of American Polymers Corp.

**PC-220**  
*Elastomeric, Aromatic Polyurethane  
Base Membrane*  
**Technical Data Sheet**

**DESCRIPTION**

PC-220 is a single component, liquid applied, moisture cured, aromatic polyurethane elastomeric waterproofing base membrane. This product does not meet VOC requirements for SCAQMD areas.

**FEATURES**

- ❖ Economical
- ❖ Moisture Cured
- ❖ Seamless Waterproofing Membrane

**TYPICAL USES**

- ❖ Concrete
- ❖ Plywood
- ❖ Metal
- ❖ Wood
- ❖ Masonry Surfaces

**COLORS**

Grey or Tan

Custom colors are also available. Minimum order of 250 gallons (945 liters). See color chart for special provisions. Contact Polycoat Products for more information.

**PACKAGING**

- 5 gallon (18.9 liter) pail
- 55 gallon drum, net fill 50 gallons (189 liters)

**MIXING**

Before application, mix PC-220 using a mechanical mixer at slow speed. Mix PC-220 thoroughly until a homogeneous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture.

**APPLICATION**

For best results, use a squeegee or notched trowel. A phenolic resin core roller may be used but extra care should be taken not to trap air which may result in bubbles.

Requires a continuous coating application to minimize lines and/or streaking.

It is recommended to apply an aggregate of washed, dry, rounded sand, approximately 16 or 20 mesh (0.0331-0.0469 in.; 0.84-1.19 mm), 6.5+ Moh's minimum hardness at a rate of 20 lbs/100 sq. ft. or as required to achieve a slip-resistant finish, into the wet second coat, covering it completely.

Most applications require two coats. To obtain proper adhesion between coats, it is imperative that re-coating be done within 48 hours.

**CURING**

At 75°F (24°C) and 50% relative humidity, allow coating to cure 16 hours before proceeding to subsequent coats. Cure time will vary depending on temperature and humidity. If more than 48 hours passes between coats, re-prime the surface with Polyprime EBF-LV, 21, 2180 or 172 before proceeding.

If accelerated curing is required, add one quart of PC-50 in a

**TECHNICAL DATA (Based on draw down film)**

Coverage Rate .....	See Guide Specifications
Dry Film Thickness, per coat at 1 gal/100 sq. ft. ....	11 ± 2 mils 279 ± 50 microns
Hardness, ASTM D-2240 .....	55 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624 .....	170 ± 25 pli 29.8 ± 4.4 kN/m
Tensile Strength, ASTM D-412 .....	800 ± 100 psi 5.5 ± 0.7 MPa
Ultimate Elongation, ASTM D-412 .....	500 ± 50%
Specific Gravity .....	1.26
Total Solids by Weight, ASTM D-2369 .....	81 ± 2%
Total Solids by Volume, ASTM D-2697 .....	71 ± 2%
Viscosity at 75°F (24°C) .....	6500 ± 3000 cps
Volatile Organic Compounds, ASTM D-2369-81 .....	2.01 lb/gal 240 gm/liter

5 gallon pail of PC-220 and mix thoroughly. This accelerated PC-220 will cure in 6-8 hours at 75°F (24°C) and 50% relative humidity.

PC-220 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application.

Low temperature and/or low humidity extend the cure time.

**EQUIPMENT CLEANUP**

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

**STORAGE**

PC-220 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

**LIMITATIONS**

Surfaces must be dry, clean and free of foreign matter.

Should be used as a base membrane only.

Not UV stable.

Cannot withstand direct wear or abrasion. Topcoat must be applied.

Containers that have been opened must be used as soon as possible.

Do not dilute under any circumstance.

The following conditions must not be coated with Polycoat

Products deck coating systems or products: on grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools, magnesite, light-weight concrete, asphalt surfaces and asphalt overlays.

**WARNING**

This product contains Isocyanates and Solvent.

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*Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data and instructions.*

**LIMITED WARRANTY**

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products current published physical properties. Polycoat Products warrants that its products, when properly installed by a state licensed waterproofing contractor according to Polycoat Products guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products 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. Polycoat Products 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. Polycoat Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

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