



# POLYCOAT PRODUCTS

A Division of American Polymers Corp.

## PC-440

*Elastomeric, Aromatic Urethane  
Base Membrane*

### DESCRIPTION

PC-440 is a single component, liquid applied, moisture-cured, aromatic urethane elastomeric waterproofing base membrane.

### FEATURES

- ❖ Proven Protection
- ❖ Moisture Cured

### TYPICAL USES

- ❖ Concrete or Plywood Decks
- ❖ Metal, Rubber, Wood, or Masonry Surfaces

### COLORS

Grey or Tan

Custom colors are also available. Minimum order of 300 gallons (1136 liters). See color chart for special provisions.

### PACKAGING

- 5 gallon (19 liter) pail
- 55 gallon drum, net fill 50 gallons (189 liters)

### MIXING

Before application, mix PC-440 using a mechanical mixer (Jiffy Mixer) at slow speeds until a homogeneous mixture and color is obtained. PC-440 may be mixed by hand if mixed for at least 5 minutes.

### 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.

Apply PC-440 evenly over the entire deck. Application should be continuous to ensure a smooth and level coat with no lines or streaks to disfigure the deck. Allow coating to cure a minimum of 16 hours at 70°F (21°C) and 50% relative humidity before proceeding to subsequent coats.

It is recommended that an aggregate of washed, dry, rounded sand, approximately 20-16 mesh (0.0331-0.0469 in.; 0.84-1.19 mm), with 6.5+ Moh's minimum hardness.

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

### CURING

At 70°F (21°C) and 50% relative humidity, allow each coat to cure a minimum of 16 hours between each coat. If more than 48 hours passes between coats, re-prime the surface with Polyprime 21, 2180 or 172 before proceeding.

### TECHNICAL DATA

Coverage Rate .....	See Guide Specifications
Dry Film Thickness, per coat @ 1 gal/100 sq. ft. ....	11 mils 279 microns
Hardness, ASTM D-2240 .....	55 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624 .....	250 ± 25 pli 43.8 ± 4 kN/m
Tensile Strength, ASTM D-412 .....	800 ± 100 psi 5.52 ± 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 ± 3000cps
Volatile Organic Compounds, ASTM D-2369-81 .....	2.01 lb/gal 240 gm/liter

PC-440 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. PC-50 may be used to accelerate cure.

### EQUIPMENT CLEANUP

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

### STORAGE

PC-440 has a shelf life of six (6) months from date of manufacture in original, factory sealed containers.

### 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.

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, lightweight 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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