



# POLYCOAT PRODUCTS

A Division of American Polymers Corp.

## PC-440 SF

*Solvent Free, Elastomeric, Aromatic Urethane Polyurea Base Membrane*

### DESCRIPTION

PC-440 SF is a single component, high solids, low odor, solvent free, environmentally safe, liquid applied, moisture-cured, aromatic urethane polyurea elastomeric waterproofing base membrane.

### FEATURES

- ❖ Proven Protection
- ❖ Solvent Free

### TYPICAL USES

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

### COLOR

Grey

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 SF using a mechanical mixer (Jiffy Mixer) at slow speeds until a homogeneous mixture and color is obtained. PC-440 SF may be mixed by hand for at least 5 minutes. Boxing of the material is recommended. 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.

Apply PC-440 SF 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 24 hours before proceeding to subsequent coats.

For pedestrian decks it is recommended that an aggregate of washed, dry, rounded, crystal silica sand, approximately 20-16 mesh (0.0331-0.0469 in.; 0.84-1.19 mm), with 6.5+ Moh's minimum hardness be added to the second wet coat of PC-440.

For below tile applications an angular sand is necessary.

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

### TECHNICAL DATA

Coverage Rate .....	See Guide Specifications
Dry Film Thickness, per coat @ 1 gal/100 sq. ft .....	16 mils 406 microns
Hardness, ASTM D-2240 .....	50 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624 .....	220 ± 25 pli 38.56 ± 3.8 kNm
Tensile Strength, ASTM D-412 .....	970 ± 100 psi 6.69 ± 0.7 MPa
Ultimate Elongation, ASTM D-412 .....	625 ± 50%
Specific Gravity .....	99.99%
Total Solids by Volume, ASTM D-2697 .....	99.99%
Viscosity at 75°F (24°C) .....	6500 ± 2000cps
ASTM D-2369-81 .....	0.001 lb/gal <10 gm/liter

### CURING

At 70°F (21°C) and 50% relative humidity, allow each coat to cure a minimum of 24 and a maximum of 48 hours between each coat. Allow thickened PC-440 SF to cure for 6 to 8 hours. If more than 48 hours passes between coats, re-prime the surface with Polyprime 21, 2180, or 172 before proceeding.

PC-440 SF is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time, therefore use caution in batch sizes and thickness of application.

Low temperature and/or low humidity extend the cure time. To accelerate cure PC-50 may be used.

### EQUIPMENT CLEANUP

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

### STORAGE

PC-440 SF 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.

For ease of application, solvent free (SF) materials should be applied in temperatures greater than 60°F (15.5°C).

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.

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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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