



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

PC-440 / 440SC

Elastomeric, Aromatic Polyurethane
Base Membrane
Technical Data Sheet

DESCRIPTION

PC-440 is a single component, liquid applied, moisture-cured, aromatic polyurethane elastomeric waterproofing base membrane, designed for use in most areas of California to be in compliance with air quality standards. PC-440SC is designed for use in Southern California to be in compliance with SCAQMD air quality standards.

FEATURES

- ❖ Moisture Cured
- ❖ Seamless Waterproofing Membrane
- ❖ For use in SCAQMD areas, use only PC-440SC

TYPICAL USES

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

COLORS

For PC-440: Grey or Tan

For PC-440SC: Grey. Tan color is available with minimum order of 250 gallons (945 liters).

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-440 using a mechanical mixer at slow speed. Mix PC-440 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

TECHNICAL DATA (Based on draw down film) PC-440 (250VOC)

(For Use In California Excluding SCAQMD Areas)

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	250 ± 25 pli 43.8 ± 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 ± 3000cps
Volatile Organic Compounds, ASTM D-2369-81	2.01 lb/gal 240 gm/liter

TECHNICAL DATA (Based on draw down film) PC-440SC (100VOC)

(For Use in SCAQMD Areas)

Coverage Rate	See Guide Specifications
Dry Film Thickness, per coat at 1 gal/100 sq. ft.	14 ± 2 mils 355 ± 50 microns
Hardness, ASTM D-2240	50 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	180 ± 25 pli 31.5 ± 4.4 kN/m
Tensile Strength, ASTM D-412	500 ± 100 psi 3.4 ± 0.7 MPa
Ultimate Elongation, ASTM D-412	525 ± 50%
Specific Gravity	1.30
Total Solids by Weight, ASTM D-2369	92.7%
Total Solids by Volume, ASTM D-2697	87.7%
Viscosity at 75°F (24°C)	6500 ± 2000cps
Volatile Organic Compounds, ASTM D-2369-81	0.78 lb/gal 94 gm/liter

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 5 gallon pail of PC-440 and mix thoroughly. This accelerated PC-440 will cure in 6-8 hours at 75°F (24°C) and 50% relative humidity.

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.

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 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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Email: sales@bestmaterials.com www.bestmaterials.com

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