



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

PC-440SF

Solvent Free, Elastomeric, Aromatic Polyurethane Base Membrane Technical Data Sheet

DESCRIPTION

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

FEATURES

- ❖ Solvent Free
- ❖ Moisture Cured
- ❖ Seamless Waterproofing Membrane

TYPICAL USES

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

COLORS

Grey or Tan

Not a stock item. Minimum order of 250 gallons (945 liters) is required.

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

TECHNICAL DATA (Based on draw down film)

Coverage Rate	See Guide Specifications
Dry Film Thickness, per coat at 1 gal/100 sq. ft	16± 2 mils 406 ± 50 microns
Hardness, ASTM D-2240	50 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	220 ± 25 pli 38.5 ± 4.4 kNm
Tensile Strength, ASTM D-412	400 ± 100 psi 2.7 ± 0.7 MPa
Ultimate Elongation, ASTM D-412	525 ± 75%
Specific Gravity	1.34
Total Solids by Weight, ASTM D-2369	99.99%
Total Solids by Volume, ASTM D-2697	99.99%
Viscosity at 75°F (24°C)	6500±2000cps
Volatile Organic Compounds, ASTM D-2369-81	<0.08 lb/gal <10 gm/liter

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

PC-440SF 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-440SF 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.

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. 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.

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