



Product 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

- Moisture Cured
- Seamless Waterproofing Membrane
- Solvent Free

Typical Uses

- Concrete
- Masonry Surfaces
- Metal
- Plywood
- Wood

Packaging

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

Color

Grey, Tan, or custom color.

Not a stock item. Minimum order of 250 gallons (945 liters) is required. See color chart for special provisions. Contact Polycoat Products for more information.

Surface Preparation

Refer to General Guidelines for complete information.

Mixing

Before application, mix PC-440SF using a mechanical mixer at slow speed. Mix PC-440SF thoroughly until a homogeneous mixture and color is attained. Use care not to allow the entrapment of air into the mixture. Do not mix in an up and down motion.

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 (0.84-1.19 mm), 6.5+ Moh's minimum hardness at a rate of 20 lbs/100 sqft (1 kg/sqm) or as required to achieve a slip-resistant finish, into the wet second coat, covering it completely. Broadcast sand until refusal and when the coating is dry, remove extra loose sand, preferably by vacuum.

Most applications require two coats. To achieve proper

Technical Data (Based on Draw Down Film)

Coverage Rate 1 gal/100 sqft
0.41 l/sqm

Dry Film Thickness per Coat 16 ± 2 mils
406 ± 50 microns

Hardness, ASTM D2240 50 ± 5 Shore A

Tear Resistance, Die C, ASTM D624 220 ± 25 pli
38.5 ± 4.4 kN/m

Tensile Strength, ASTM D412 400 ± 100 psi
2.7 ± 0.7 MPa

Ultimate Elongation, ASTM D412 525 ± 75%

Specific Gravity 1.34 ± 0.1

Total Solids by Weight, ASTM D2369 99.99%

Total Solids by Volume, ASTM D2697 99.99%

Viscosity at 75°F (24°C) 6500 ± 2000 cps

Volatile Organic Compounds, ASTM D-2369-81 <0.08 lb/gal
<10 gm/liters

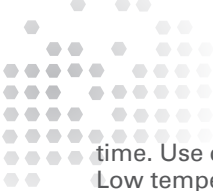
adhesion between coats, it is imperative that re-coating be done within 48 hours.

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 U 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. If PC-50 Accelerator is used then re-coat should be done within 12 hours after cure. If re-coat window has passed, then solvent wipe the surface with VOC compliant solvent and re-prime surface with Polyprime® U.

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.

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 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

This product is not UV Stable.

The following conditions must not be coated with Polycoat deck coatings or systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete. On grade slabs may receive Polycoat system coatings provided a moisture-vapor transmission test is first performed. Please contact Polycoat technical department with the results.

With regard to coating asphalt surfaces, please contact Polycoat technical department.

Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

Warning:

This product contains Isocyanates.

Limited Warranty: Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. 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, instructions, and project specific recommendations.

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