PC-440 / 440SC

ICC-ES Evaluated Base Membrane
For Class A/B Fire Rated System

REVISION 4/1/18

Product Description

PC-440/440SC 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. Make sure to use the correct grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.

FEATURES

- Moisture Cured
- Elastomeric
- Seamless Waterproofing Membrane

TYPICAL USES

- Concrete
- Plywood
- Metal
- Wood
- Masonry Surfaces

PACKAGING

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

Color

Grey or Tan

Surface Preparation

Refer to General Guidelines for complete information.

Mixing

Before application, mix PC-440/440SC using a mechanical mixer at slow speed. Mix PC-440/440SC 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+ Mohs 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.

TECHNICAL DATA (BASED ON DRAW DOWN FILM)

	PC-440	PC-440SC
Coverage Rate	1 gal/100 sqft 0.41 l/sqm	1 gal/100 sqft 0.14 l/sqm
Dry Film Thickness per Coat	11 ± 2 mils 279 ± 50µ	14 ± 1 mils 355 ± 50µ
Hardness, ASTM -2240	55 ± 5 Shore A	55 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	170 ± 25 pli 28.9 ± 4.4 kN/m	120 ± 25 pli 21.0 ± 4.4 kN/m
Tensile Strength, ASTM D-412	800 ± 100 psi 5.5 ± 0.7 MPa	500 ± 100psi 3.4 ± 0.7 MPa
Ultimate Elongation, ASTM D-412	500 ± 50%	400 ± 50%
Specific Gravity	1.26 ± 0.1	1.30 ± 0.1
Total Solids by Weight, ASTM D-2369	81 ± 2%	92.7 ± 2%
Total Solids by Volume, ASTM D-2697	71 ± 2%	87.7 ± 2%
Viscosity at 75°F (24°C)	6500 ± 2000 cps	6500 ± 2000 cps
Volatile Organic Compounds, ASTM D-2369-81	2.01 lb/gal 240 gm/liters	0.78 lb/gal 94 gm/liters

Most applications require two coats. To obtain proper adhesion between coats, it is imperative that recoating be done within 48 hours. If re-coat window has passed, then solvent wipe the surface with VOC-compliant solvent and re-prime with Polyprime U.

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, reprime 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-440/440SC and mix thoroughly. This accelerated PC-440/440SC 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-440/440SC 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-440/440SC 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 and Curative Material.