

## Product Description

PC-280 is a two component, very rapid setting, rapid curing, solvent free, flexible, high performance, and high solids polyurethane elastomeric coating that can be applied to suitably prepared interior or exterior concrete, plywood and metal surfaces. Due to very rapid gel time, PC-280 is suitable for applications in temperatures as low as 20°F (-6°C). It may be applied in a single or multiple applications. PC-280 is also relatively insensitive to moisture and temperature allowing applications in varied temperatures and humidity.

## FEATURES

- » Non-Gassing
- » Recoatable
- » Can Be Applied At Any Thickness
- » Seamless
- » Good Thermal Stability
- » Good Chemical Resistance
- » Meets USDA Criteria
- » Excellent Low Temperature Flexibility
- » Interior and Exterior Applications

## TYPICAL USES

- » Vehicular Traffic Areas
- » Sundecks & Balconies
- » Crack Repairs
- » Expansion Joints
- » Stalls, Wash Racks
- » Kennel Runs
- » Exterior & Interior Pedestrian Traffic Surfaces such as Walkways, Patios and Stairways
- » Interior Surfaces such as Floors and Mechanical Rooms

## PACKAGING

**1-Gallon Kit** One 1 gallon can, net fill 0.8 gallons (3 liters) of Side-A and One quart can, net fill 0.2 gallons (0.78 liters) of Side-B

**5-Gallon Kit** One 5 gallon pail, net fill 4 gallons (15.12 liters) of Side-A and One 1 gallon (3.78 liters) can of Part-B

## TECHNICAL DATA (BASED ON DRAW DOWN FILM)

**Coverage Rate** 1 gal/100 sqft  
0.41 l/sqm

**Dry Film Thickness per Coat** 15 ± 1 mils  
381 ± 25 microns

**Mixing Ratio** 4A : 1B

**Hardness, ASTM D-2240** 80 ± 3 Shore A

**Tear Resistance, Die C, ASTM D-624** 300 ± 25 pli  
52.5 ± 4.4 kN/m

**Tensile Strength, ASTM D-412** 2500 ± 100 psi  
17.2 ± 0.7 MPa

**Ultimate Elongation, ASTM D-412** 800 ± 100%

**Total Solids by Weight, ASTM D-2369** 94 ± 2%

**Total Solids by Volume, ASTM D-2697** 95 ± 2%

**Viscosity at 75°F (24°C)**  
Side-A 1500-2500  
Side-B 50-150 cps

**Volatile Organic Compounds, ASTM D-2369-81** <0.04 lb/gal  
<5 gm/liters

## Color

Grey.

Custom colors are also available. Minimum order of 250 gallons (945 liters). See color chart for special provisions. Contact Polycoat Products for more information.


## Surface Preparation

Refer to General Guidelines for complete information.

## Mixing

NOTE: PC-280 may not be diluted under any circumstances. Proportions are premeasured.

Using a mechanical mixer, first pre-mix separately Side-A and Side-B base material thoroughly to attain a uniform color, making sure to scrape the solids from the bottom and sides of the pail.



Pour Side-B into Side-A slowly and while mixing, scrape the sides of the container. Mix for 1-2 minutes. Box the materials. Mix the combined Side-A and Side-B mixture thoroughly until uniform color is attained.

Do not mix in an up and down motion.

### Application

PC-280 should be applied at a temperature of 20°F (-6°C) and above.

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.

An aggregate of 14-30 mesh (0.56-1.41 mm) rubber granules may be broadcast into the membrane at a rate of 10 lbs/100 sqft (0.5 kg/sqm) or to refusal. The amount of rubber used will vary. When coating starts to gel in approximately 20 to 30 minutes, broadcast 14-30 mesh (0.56-1.41 mm) rubber granules until refusal. The quantity amount of rubber granules will vary (normal usage is 20 lbs/100 sqft for 1 kg/sqm). When the coated surface is stiff enough to support the weight of installer without damaging the coating or when the coating is dry (approximately 4-6 hours), remove all loose aggregate, preferably by vacuum.

### Curing

At 75°F (24°C) and 50% relative humidity, allow each coat to cure for 2-4 hours before proceeding 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.

### Cleanup

Equipment should be cleaned with an environmentally safe, polyurethane-grade solvent (alcohol free) as permitted under local regulations immediately after use.

### Storage

PC-280 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.**

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