



**POLYCOAT
PRODUCTS**
A Division of American Polymers Corp.

PC-550
*Urethane Polyurea
Elastomeric Membrane*

DESCRIPTION

PC-550 is a single component water catalyzed urethane polyurea, liquid applied elastomeric waterproof base membrane.

FEATURES

- ❖ Non-Gassing
- ❖ Seamless Membrane
- ❖ Applied at any thickness
- ❖ Fast Curing
- ❖ Water Catalyzed

TYPICAL USES

- ❖ Parking Decks
- ❖ Pedestrian Decks
- ❖ Helicopter Pads
- ❖ Ship Decks
- ❖ Under Tile
- ❖ Concrete
- ❖ Plywood
- ❖ Masonry
- ❖ Metal

COLOR

Grey

PACKAGING

5 gallon (19 liter) pail with 1 vial of Catalyst

SUBSTRATES

See general guidelines.

JOINTS, CRACKS AND FLASHINGS

See general guidelines.

SLOPING AND CONCRETE REPAIRS

Concrete repairs can be made prior to coating with a sand or rubber slurry mixture of 1 part mixed PC-550 (see mixing instructions below) to 1 part clean sand or rubber. Light foot traffic is allowed in approximately 2 hours depending on weather conditions.

PC-550 can be thickened with rubber granules by no more than 10% by volume.

COVERAGERATE

One gallon of PC-550 mixed with one quart of water will provide 14 mils of coverage over 100 sq. ft.

Plywood or uneven surfaces may require additional material to achieve the same mil thickness.

MIXING

Before application, mix PC-550 using a mechanical mixer (Jiffy Mixer) at slow speeds. Add PC-550 Catalyst and mix thoroughly until a homogenous mixture is obtained. Use care not to allow the entrapment of air into the mixture.

TECHNICAL DATA (For unmixed PC-550)

Hardness, ASTM D-2240	55 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	210 ± 20 pli
	36.8 ± 3.5 kN/m
Tensile Strength, ASTM D-412	1000 ± 100 psi
	6.89 ± 0.7 Mpa
Ultimate Elongation, ASTM D-412	500 ± 50%
Total Solids by Weight, ASTM D-2369	82%
Total Solids by Volume, ASTM, D-2697	76%
Viscosity	2000 ± 1000cps
Density	10.4 lbs/gal
Volatile Organic Compounds, ASTM D-2369-81	1.71 lbs/gal 205 gm/liter

Mix PC-550 with water (water must be added) at a ratio of one quart of water to one gallon of PC-550. This will yield 1¼ gallon of membrane. The mixing ratio is 4 parts PC-550 to 1 part of water (4:1).

APPLICATION

Concrete, metal and old plywood surfaces should be primed.

For best results use a squeegee or a notched trowel.

Apply PC-550 evenly over the entire deck. Application should be continuous to ensure a smooth and even coat.

Apply Polyprime 21 or 2180 to a PC-550 surface which is more than 16 hours old to achieve the best intercoat adhesion.

An aggregate of 14-30 rubber granules may be broadcast into the PC-550 membrane at a rate of 10 lbs. per 100 sq. ft. or to refusal. The amount of rubber used will vary.

A sand aggregate may also be used.

CURING

Allow each coat to cure a minimum of 2-4 hours before proceeding with subsequent coats.

EQUIPMENT CLEANUP

Equipment should be cleaned with environmentally safe solvent immediately after use.

STORAGE

PC-550 has a shelf life of six (6) months from date of manufacture in original, factory sealed containers.

LIMITATIONS

Using a clear topcoat on this system will result in a cloudy, milky finish.

Surfaces must be dry, clean and free of foreign matter.

Keep unopened containers from freezing.

Do not apply if temperature is below 50°F (10°C) or above 90°F (32.2°C).

Surface may be slippery when wet.

PC-550 is not UV stable and must have a topcoat applied.

PC-550 may shrink.

PC-550 is a fast curing material and must be applied immediately after mixing with water.

Containers that have been opened must be used as soon as possible.

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 Solvents.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. 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 and instructions.

LIMITED WARRANTY

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products current published physical properties. Polycoat Products warrants that its products, when properly installed by a state licensed waterproofing contractor according to Polycoat Products guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Polycoat Products shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Polycoat Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

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