



# POLYCOAT PRODUCTS

A Division of American Polymers Corp.

## POLYDECK® 165 60 Dry Mills Decking System

### SYSTEM DESCRIPTION

The Polydeck® 165 decking system is a waterproof liquid applied, polyurethane system. The system utilizes an epoxy primer, one coat of a water catalyzed urethane basecoat that can be applied at any thickness, and one or two coats of an aliphatic urethane topcoat. The Polydeck® 165 decking system is designed to expand and contract with normal structural movements. The Polydeck® 165 decking system can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on these surfaces. Polydeck® 165 is resistant to weathering. It will not soften in heat nor embrittle in cold. The system is designed for use in a wide range of applications. Installed and maintained properly, the Polydeck® 165 decking system will ensure years of service.

### FEATURES

- ❖ Non-Gassing
- ❖ PC-550 can be applied at any thickness
- ❖ Seamless
- ❖ Elastomeric
- ❖ Chemical Resistance
- ❖ Waterproof
- ❖ Recoatable
- ❖ Fast Curing
- ❖ Meets California VOC and AQMD Requirements

### TYPICAL USES

- ❖ Balconies
- ❖ Roof Decks
- ❖ Walkways
- ❖ Patios
- ❖ Over Occupied Space

### PRODUCT INSTRUCTIONS

For complete information associated with the application of all Polycoat Products systems, refer to the general guidelines section of the Polycoat Products catalog which describes the surface preparation, job conditions, finishing details and other necessary information.

### APPLICATION

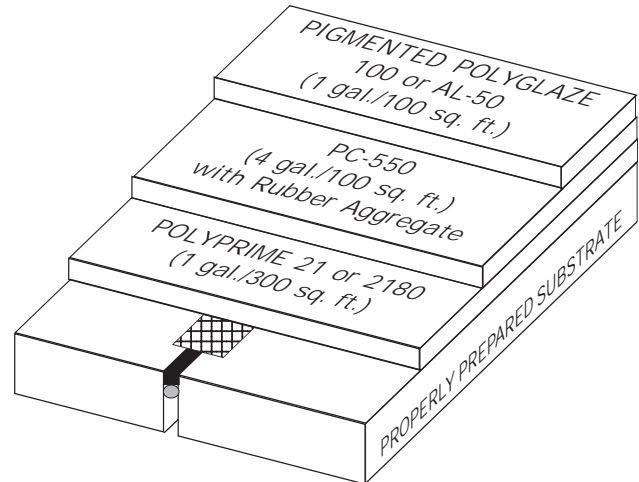
**Phase 1:** Check area of application to ensure that it conforms to the substrate requirements, as stated in the general guidelines section. Apply a polyurethane caulking, or PC-550, over all joints, cracks and flashing. Bridge the joints, cracks, and flashings with 4" (10 cm) Straight Jacket pushing it into the PC-550 with a trowel. Using PC-550 as a caulking compound will shorten the curing time appreciably over conventional polyurethane caulks. Over reinforcement tape, apply a stripe coat of PC-550 and taper it onto the adjacent surface. Allow the surface to cure for 1 to 2 hours.

**Phase 2:** If necessary, prime the surface with Polyprime 21 or 2180 at a rate of 1 gallon/300 sq. ft. (0.14 liters/m<sup>2</sup>). Apply with a brush or phenolic core roller. This will result in a 3 dry mils (76 microns) coating. Allow Polyprime to become tack free before proceeding before proceeding to Phase 3.

Primer is optional on new plywood.

Steel flashings should only be primed with Polyprime 2180.

**Phase 3:** Apply PC-550 (see mixing instructions for PC-550)



to the substrate at a rate of 4 gallons/100 sq. ft. (1.63 liters/m<sup>2</sup>). Application will require more or less material depending on requirements. Use a notched trowel or squeege to spread PC-550 evenly over the entire deck resulting in a 48 ± 2 dry mils (1244 ± 50 microns) thick membrane, exclusive of aggregate.

**Phase 4:** While PC-550 is still wet and start gelling, broadcast 14-30 white rubber granules into the PC-550 membrane at a rate of 10 lbs./100 sq. ft. or to refusal. The amount of rubber used will vary. When the PC-550 is stiff enough to support weight without denting, approximately 2-3 hours, remove all loose aggregate, preferably by vacuum.

**Phase 5:** Apply only pigmented Polyglaze 100 or Polyglaze AL-50 topcoat at a rate of 1 gallon/100 sq. ft. (0.41 liters/m<sup>2</sup>). For best results use a phenolic core roller. Extra care should be taken to prevent air bubbles. This coat will result in an additional 10 ± 2 dry mils (254 ± 50 microns) thick membrane. Allow a minimum of 16 hours for topcoat to cure.

### OPTIONAL SAND AGGREGATE

If a sand aggregate is to be used instead of rubber granules, Phase 3 and Phase 4 should be applied as follows:

**Phase 3:** Apply PC-550 (see mixing instructions for PC-550) at a rate of 3 gallons/100 sq. ft. (1.22 liters/m<sup>2</sup>). Use a notched trowel or squeegee to spread PC-550 evenly over the entire deck resulting in a 36.75 ± 2 dry mils (933 ± 50 microns) thick membrane.

**Phase 4:** Apply a second coat of PC-550 (see mixing instructions for PC-550) to the substrate at a rate of 1 gallon/100 sq. ft. (0.41 liters/m<sup>2</sup>). Spread PC-550 evenly over the entire deck. While PC-550 is still tacky, broadcast washed, dry, rounded sand, 20 mesh (0.0469 in.; 1.19 mm), 6.5+ Moh's minimum hardness, at a rate of 10 lbs./100 sq. ft., or to refusal, into the wet second coat, cover completely.

When the PC-550 is stiff enough to support weight without denting, remove all loose aggregate, preferably by vacuum. This will result in a 12.25 ± 2 dry mils (311 ± 50 microns) thick

membrane, exclusive of aggregate. Proceed with Phase 5 as above.

## **SECOND TOPCOAT**

A second topcoat is required for a warranty system. It is difficult to coat rubber granules with a single application of topcoat. Apply desired color of pigmented Polyglaze topcoat at a rate of 1 gallon/100 sq. ft. (0.41 liters/m<sup>2</sup>). This coat will result in an additional 10 ± 2 dry mils (254 ± 50 microns) thick membrane. Allow a minimum of 16 and a maximum of 48 hours for topcoat to cure.

## **OPTIONAL FAST CURE**

**Topcoat:** The addition of Polyglaze Hardener will shorten cure time to 6 to 8 hours for each coat. Recoats should occur 8-12 hours of when surface becomes tack-free.

## **SLOPING, CONCRETE REPAIR, CRACK FILLING**

For sloping, concrete repair or to fill cracks, use neat or add sand/rubber granules from 0.5 to 1.5 by volume into mixed PC-260.

## **FINISHED SYSTEM**

When applied as directed above, the Polydeck® 165 decking system will provide 60 dry mils (1524 dry microns), exclusive of aggregate, of superior waterproofing protection.

## **PACKAGING**

Polyprime 21: 3 gal kits (One 3.5 gal pail net 2 gal of Part-A & One 1 gal can of Part-B) or 15 gal kits (Two 5 gal pails of Part-A & One 5 gal pail of Part-B).

Polyprime 2180: 2 gal kits (One 1 gal can of Part-A & One 1 gal can of Part-B) or 10 gal kits (One 5 gal pail of Part-A & One 5 gal pail of Part-B).

Basecoats: 1 gallon cans or 5 gallon pails.

Topcoats: 1 gallon cans or 5 gallon pails.

## **LIMITATIONS**

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

PC-550 may shrink.

The following conditions must not be coated with Polycoat Products deck coating systems or products: on below grade slabs, split slabs with buried membrane, sandwich slabs

with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools, magnesite, lightweight concrete, asphalt surfaces, asphalt overlays and where chained or studded tires may be used.

Concrete must exhibit 3000-psi minimum strength. Concrete surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function.

New concrete must be cured for 28 days. Concrete cleaning (see general guidelines).

## **On Grade**

Polycoat Products Coating Systems should not be subjected to rising water tables or hydrostatic pressure on slab-on-grade decks.

The only acceptable grade of plywood is APA rated exterior grade or better.

The appearance characteristics of the plywood and grade should be considered.

Plywood should be new or cleaned and sanded (see general guidelines).

Equipment should be cleaned with an urethane grade environmentally safe solvent, as permitted under local regulations, immediately after use.

Uncured materials are sensitive to heat and moisture.

A continuous coating application should ensure a deck with no lines or streaks.

The substrate must be structurally sound and sloped for proper drainage.

Field visits by Polycoat Products personnel are for the purpose of making technical recommendations only and are not to supervise or provide quality control on the job site.

## **WARNING**

The products in this system contain Isocyanates, Solvents, Epoxy Resin and Curatives.

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*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.

## **DISCLAIMER**

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Polycoat Products makes no claim that these tests or any other tests, accurately represent all environments.