

POLYCOAT PRODUCTS

A Division of American Polymers Corp.

POLYDECK® 100 40 Dry Mills Balcony/Walking Deck System System Data Sheet

SYSTEM DESCRIPTION

The Polydeck® 100 balcony/walking deck system is for light service and is a liquid applied, moisture cured, polyurethane waterproof system. The system utilizes an epoxy primer, one coat of an aromatic polyurethane basecoat, one intermediate coat of an aromatic polyurethane with aggregate, and one aliphatic polyurethane topcoat. The Polydeck® 100 balcony/walking deck system is a specialized application of elastomeric waterproof coatings designed to expand and contract with normal structural movements. The Polydeck® 100 balcony/walking deck system can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on these surfaces. Installed and maintained properly, the Polydeck® 100 balcony/walking deck system will ensure years of service.

FEATURES

- ❖ Seamless
- ❖ Recoatable
- ❖ Meets California VOC and AQMD Requirements, Excluding SCAQMD Areas
- ❖ Elastomeric
- ❖ Waterproof

TYPICAL USES (*With Light Foot Traffic)

- ❖ Balconies*
- ❖ Patios*
- ❖ Walkways*
- ❖ Sundecks*

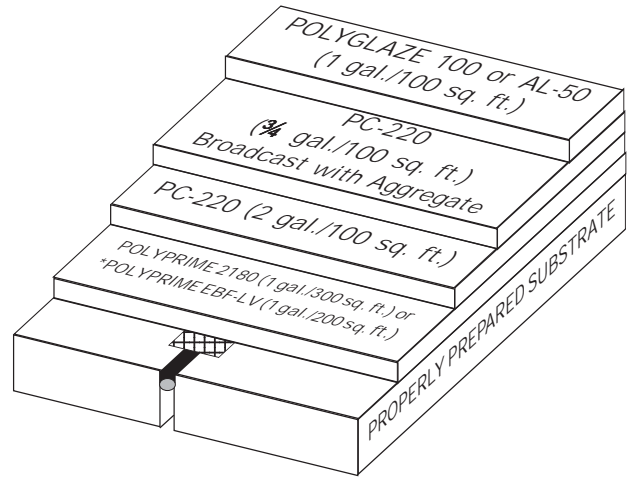
PRODUCT INSTRUCTIONS

For complete information associated with the application of all Polycoat Products decking systems and products, refer to the General Guidelines and Technical Bulletin sections of the Polycoat Products catalog, which describes the products, 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. Prime all joints, cracks, flashings with approved primers as specified below in Phase 2. Apply PC-260 over all joints, cracks and flashing. Bridge joints, cracks, and flashings with 4" Straight Jacket Tape pushing it into the PC-260 with a trowel. Using PC-260 as a caulking compound will shorten the curing time appreciably over conventional polyurethane caulks. Over reinforcement tape, apply a stripe coat of PC-260 and taper it onto the adjacent surface. Allow the surface to cure for 1 to 2 hours.

Phase 2: Metal, concrete and existing plywood which has been cleaned and sanded should be primed with Polyprime 2180 at a rate of 1 gallon/300 sq. ft. (0.14 liters/m²). Apply using a brush or phenolic core roller. This will result in a 3 dry mils (76 microns) thick membrane. *Note: For rough or porous concrete, use Polyprime EBF-LV at an approximate rate of 1 gallon/200 sq. ft. (0.20 liters/m²); this rate may vary on the porosity of the substrate. Metal should only be primed with



Polyprime 2180. Allow Polyprime to become tack free before proceeding to Phase 3.

Substrates other than new plywood are to be primed.

Phase 3: Apply PC-220 to the substrate at a rate of 2 gallons/100 sq. ft. (0.82 liters/m²). For best results, use a notched trowel or squeegee. A phenolic core roller may be used but extra care should be taken to prevent air bubbles. Spread mixed PC-220 evenly over the entire deck resulting in a 23 ± 2 dry mils (584 ± 51 microns) thick membrane. Allow PC-220 to cure before proceeding to Phase 4. Recoats must be done within 24 hours of cure.

Phase 4: Apply a second coat of PC-220 at a rate of 3/4 gallon/100 sq. ft. (0.31 liters/m²). Immediately broadcast washed, dry, rounded sand, 20 mesh (0.0331 in.; 0.841 mm), 6.5+ Moh's minimum hardness, at a rate of 20 lbs/100 sq. ft. or as required to achieve a slip-resistant finish, into the wet second coat, covering it completely. This coat will result in a 8 ± 2 dry mils (203 ± 51 microns) thick membrane, exclusive of aggregate. After allowing to cure, remove all loose aggregate. Recoats must be done within 24 hours of cure.

Phase 5: Apply desired color of Polyglaze 100 or Polyglaze AL-50 topcoat at a rate of 1 gallon/100 sq. ft. (0.41 liters/m²). For best results, use a phenolic core roller. This coat will result in an additional 11 ± 2 dry mils (279 ± 51 microns) thick membrane.

Optional Second Topcoat: A second coat of topcoat is required for a warranted system. Apply a second coat of desired color of Polyglaze 100 or Polyglaze AL-50 topcoat at a rate of 3/4 gallon/100 sq. ft. (0.31 liters/m²). For best results, use a phenolic core roller. This coat will result in an additional 7 ± 2 dry mils (178 ± 51 microns) thick membrane.

OPTIONAL FAST CURE

Basecoat: The addition of PC-50 will shorten cure time to 4 to 8 hours for each coat. Recoats should occur 12 hours after 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 PC-260 neat or add sand/rubber granules from 0.5 to 1.5 by volume into mixed PC-260.

FINISHED SYSTEM

When applied as directed, the Polydeck® 100 balcony/walking deck system will provide 40 dry mils (1016 dry microns), exclusive of aggregate, of superior waterproofing protection.

Requires a continuous coating application to minimize lines and/or streaking.

Any optional adhesion test is to be performed seven days after product application.

PACKAGING

Polyprime 2180 and Polyprime EBF-LV: 2 gallon kits (One 1 gallon can of Part-A and One 1 gallon can of Part-B) or 10 gallon kits (One 5 gallon pail of Part-A and One 5 gallon pail of Part-B).

Basecoats: 1 gallon cans or 5 gallon pails.

Topcoats: 1 gallon cans or 5 gallon pails.

LIMITATIONS

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 and asphalt overlays.

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).

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 and physical characteristics of the plywood and grade should be considered.

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

Coating should be applied at least 5°F (3°C) above the dew point.

Coverage rates recommended are based on lab conditions, applied at 75°F (24°C) ambient temperature and are intended to be minimum coverage rates on clean, smooth plywood, and are exclusive of additional amounts needed to fill potholes, spallings, scalling, rough and irregular surfaces. Porosity and roughness of the substrate, aggregate size, and product temperature will affect coverage rates. Material mil thickness rates are calculated on theoretical coverage for a smooth substrate and do not account for the actual texture or substrate conditions in the field or at the time of application. Sample mockups on the projects are recommended to determine the exact coverage rates necessary to waterproof the deck to acceptable standards.

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

Uncured materials are sensitive to heat and moisture.

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

Polycoat Products assumes no liability for substrate defects.

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 and Curatives.

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.