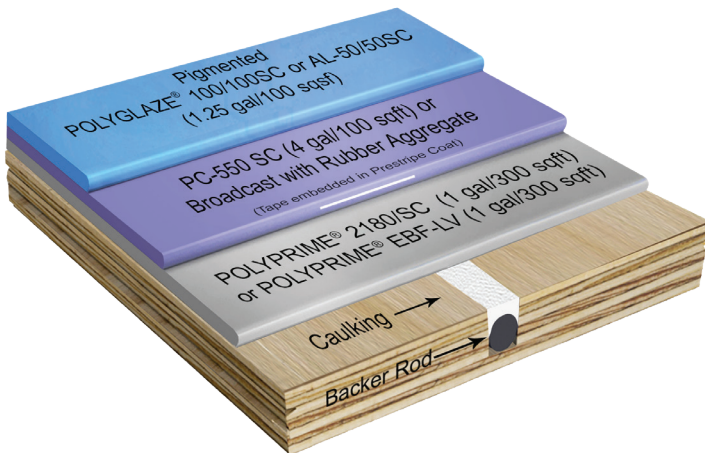


Concrete Substrate
(properly prepared substrate)



Plywood Substrate
(properly prepared substrate)

Features

- Applied at Any Thickness
- Chemical Resistance
- Elastomeric
- Fast Curing
- Meets CA VOC & AQMD Requirements
- Non-Gassing
- Recoatable
- Seamless
- Waterproof

Typical Uses

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

Technical Data

Pedestrian Traffic Deck Coating System
Polydeck® 165
70 Dry Mills (1778 microns)
Polydeck® 165SC
72 Dry Mills (1828 microns)

Primer
Polyprime® 2180SC
Polyprime® EBF-LV

Basecoat
PC-550SC

Topcoat
Polyglaze® 100/100C/100SC
Polyglaze® AL-50/AL-50SC

Packaging

Polyprime® 2180SC or Polyprime® EBF-LV
2-gallon kit: One 1 gallon (3.78 liters) can of Side-A and One 1 gallon (3.78 liters) can of Side-B or
10-gallon kit: One 5 gallon (18.9 liters) pail of Side-A and One 5 gallon (18.9 liters) pail of Side-B

PC-550SC
1 gallon (3.78 liters) cans or 5 gallon (18.9 liters) pail (With Vial of Catalyst)

Polyglaze® 100/100SC or AL-50/AL-50SC
1 gallon (3.78 liters) cans or 5 gallon (18.9 liters) pail

Description

The Polydeck® 165SC Pedestrian Traffic Deck System is a liquid applied, polyurethane waterproofing deck system. The system utilizes an epoxy primer, one coat of a fast setting water catalyzed polyurethane basecoat with a rubber aggregate that can be applied at any thickness, and one or two coats of an aliphatic polyurethane topcoat. The Polydeck® 165SC decking system is designed to expand and contract with normal structural movements. The Polydeck® 165SC decking system can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on these surfaces. Polydeck® 165SC 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® 165SC decking system will ensure years of service.

Product Instructions

For complete information associated with the application of all Polycoat Products decking systems and products, refer to the General Guidelines and Technical Data Sheets of the Polycoat Products catalog, which describes the products, surface preparation, job conditions, finishing details and other necessary information.

Coatings 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 a polyurethane caulking, or PC-550SC, over all joints, cracks and flashing. Bridge the joints, cracks, and flashings with 4" (10 cm) Straight Jacket Tape pushing it into the PC-550SC with a trowel. Using PC-550SC 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:

Substrates other than new plywood are to be primed. Metal and concrete which have been cleaned should be primed with Polyprime® 2180SC at a rate of 1 gallon/300 sq. ft. (0.14 liters/sqm). 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 or when outgassing is a concern, use Polyprime® EBF-LV at an approximate rate of 1 gallon/200 sqft (0.20 liters/sqm); this rate may vary on the porosity of the substrate. Metal should only be primed with Polyprime® 2180SC. Allow primer to become tack free before proceeding to Phase 3.

PHASE 3:

Apply PC-550SC (see mixing instructions for PC-550SC) to the substrate at a rate of 4 gallons/100 sqft (1.63 liters/sqm). Use a notched trowel or notched squeegee to spread PC-550SC evenly over the entire deck resulting in a 58 dry mils (1479 ± 51 microns) thick membrane, exclusive of aggregate.

PHASE 4:

While PC-550SC is still wet and starting to gel, broadcast 14-30 white rubber granules into the PC-550SC membrane at a rate of 10 lbs/100 sqft or as required to achieve a slip-resistant finish. The amount of rubber used will vary. When the PC-550SC is stiff enough to walk on without denting, remove all loose aggregate.

PHASE 5:

Apply only pigmented Polyglaze® 100/100SC or Polyglaze® AL-50/50SC topcoat at a rate of 1.25 gallon/100 sqft (0.41 liters/sqm). For best results, use a phenolic core roller. Extra care should be taken to prevent air bubbles. This coat will result in an additional 13-14 dry mils (357 ± 51 microns) thick

membrane.

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-550SC (see mixing instructions for PC-550SC) at a rate of 3 gallons/100 sqft (1.22 liters/sqm). Use a notched trowel or notched squeegee to spread PC-550SC evenly over the entire deck resulting in a 43 ± 1 dry mils (1096 ± 51 microns) thick membrane.

PHASE 4:

Apply a second coat of PC-550SC (see mixing instructions for PC-550SC) to the substrate at a rate of 1 gallon/100 sqft (0.41 liters/sqm). Spread PC-550SC evenly over the entire deck. 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 sqft or as required to achieve a slip-resistant finish, into the wet second coat, covering it completely. When the PC-550SC is stiff enough to walk on without denting, remove all loose aggregate. This will result in a 14 dry mils (357 ± 51 microns) thick membrane, exclusive of aggregate. Proceed with Phase 5 as above.

PHASE 5:

Apply only pigmented Polyglaze® 100/100SC or Polyglaze® AL-50/50SC topcoat at a rate of 1.25 gallon/100 sqft (0.41 liters/sqm). For best results, use a phenolic core roller. Extra care should be taken to prevent air bubbles. This coat will result in an additional 13-14 dry mils (357 ± 51 microns) thick membrane.

OPTIONAL FAST CURE:

TOPCOAT:

The addition of Polyglaze® Hardener will shorten cure time to 2-4 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-550SC neat or add 2 to 3 parts sand/rubber granules into one part mix PC-550SC by volume.

FINISHED SYSTEM:

When applied as directed above, the Polydeck® 165SC decking system will provide 72 dry mils (1836 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.

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, Epoxy Resin, and Curatives.



Limited Warranty: Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. 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, instructions, and project specific recommendations.

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products' current published physical properties. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product 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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