

POLYCOAT PRODUCTS

A Division of American Polymers Corp.

POLYDECK® DECK WATERPROOFING RESTORATION SYSTEM

44 Dry Mills System Data Sheet

SYSTEM DESCRIPTION

The Polydeck® Deck Waterproofing Restoration System is a very reliable deck waterproofing restoration system. It is designed for restoration or new construction on all types of balcony, walkways and walkway traffic decks.

The Polydeck® Deck Waterproofing Restoration System is a, liquid applied, moisture cured polyurethane waterproof system that is very low VOCs which makes it suitable for all states and VOC restricted areas. It is elastomeric and therefore designed to expand and contract with normal structural movements.

The system utilizes an epoxy or polyurethane primer, one coat of an aromatic polyurethane basecoat and two coats of an aliphatic polyurethane topcoat. Whether on $\frac{5}{8}$ " or $\frac{19}{32}$ " plywood wood, concrete or metal, the Polydeck® Deck Waterproofing Restoration System protects surfaces against spalling, freeze/thaw damage and chemicals commonly encountered on these surfaces.

The Polydeck® Deck Waterproofing Restoration System is a proven waterproofing system for use in a wide range of applications. Installed and maintained properly, the it will ensure years of service.

APPROVALS, CODES & TESTING

- ✦ Meets the Criteria of ASTM C-957
- ✦ Polydeck® Deck Waterproofing Restoration System conforms to CCMC exposed cold-applied Elastomeric Roofing Membrane that can withstand exposure to pedestrian traffic in compliance with intent of the National Building Code of Canada 1995.

FEATURES

- ✦ Seamless
- ✦ Chemical Resistance
- ✦ Recoatable
- ✦ Meets Southern California VOC and SCAQMD Requirements.
- ✦ Elastomeric
- ✦ Waterproof

TYPICAL USES

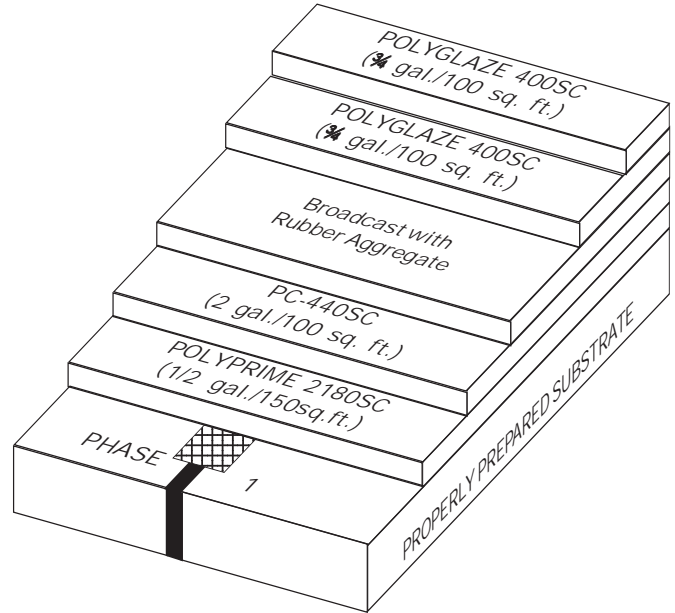
- ✦ Walkways / Stairs
- ✦ Over Occupied Space
- ✦ Patios
- ✦ Balconies
- ✦ Sun Decks
- ✦ Roof Decks

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 information section. Prime all joints, cracks, flashings with



approved primers as specified below in Phase 2. Apply a two-part paste consisting of PC-440SC and PC-50 over all joints, cracks and flashings. Mixing ratio is $\frac{1}{2}$ pint of PC-50 to 1 gallon of PC-440SC (0.24 liters to 3.78 liters) or 1 quart PC-50 to 5 gallons of PC-440SC (0.9 liters to 18.9 liters). **Do not mix more material than can be used in 20 minutes.** Bridge the joints, cracks, and flashings with 4" Straight Jacket Tape, pushing it into the paste with a trowel.

Over Straight Jacket Tape, apply a stripe coat of the PC-440SC and PC-50 mixture and taper it onto the adjacent surface. Allow the surface to cure for 6 to 8 hours.

Phase 2: Wood, existing plywood, concrete or metal which has been cleaned and sanded should be primed with Polyprime 2180SC at a rate of $\frac{1}{2}$ gallon/150 sq. ft. Apply using a brush or phenolic core roller. This will result in a minimum 3-5 dry mils thick membrane. Allow Polyprime to become tack free before proceeding to Phase 3.

Substrates other than new plywood are to be primed.

Phase 3: Apply PC-440SC to substrate at a rate of 2 gallons/100 sq. ft. Applicator should remove any top skin, if present, and stir for 5 minutes with power stir tool. Do not whip air into mixture.

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-440SC evenly over the entire deck resulting in a minimum of 28 ± 2 dry mils thick membrane. After squeegee, optionally, SLOW back roll to smooth out further and work out any bubbles.

Phase 4: Immediately, broadcast 16-30 mesh white rubber

granules into the PC-440SC membrane (rubber granules should sink only partially into the basecoat) at a rate of 10 lbs./100 sq. ft., or as required to achieve a slip-resistant finish. The amount of rubber used will vary. After the Phase 3 coat has cured, remove all loose aggregate.

Phase 5: Apply desired color of Polyglaze 400SC topcoat at a rate of ¾ gallon/100 sq. ft. Applicator should remove any top skin, if present, and stir for 5 minutes with power stir tool. Do not whip air into mixture. Use a ¼" nap roller with solvent resistant core. It is rolled out of a pan to control thickness, never out of the bucket. DO NOT APPLY THICKER than 1G/100 sq-ft in any coat. This coat will result in an additional minimum 8 ± 2 dry mils thick membrane. Allow this coat to cure before proceeding to Phase 6.

Phase 6: Apply a second coat of Polyglaze 400SC topcoat at a rate of ¾ gallon/100 sq. ft. This coat will result in an additional minimum 8 ± 2 dry mils thick membrane. At 75°F (24°C) and 50% relative humidity, allow 72 hours of cure time before permitting heavy traffic on the finished system.

OPTIONAL FAST CURE

First 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. PC-50 should not be used in the second basecoat, as the sand will not adhere properly.

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.

FINISHED SYSTEM

When applied as directed above, the Polydeck® Deck Waterproofing Restoration System will provide minimum 44 dry mils, exclusive of aggregate, of superior waterproofing protection, on 5/8" or 19/32" plywood.

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 2180SC: Two 1-quart cans (one 1-quart can of Part-A and one 1-quart can of Part-B).

PC-440SC: 1-gallon cans or 5-gallon pails.

Polyglaze 400SC: 1-gallon cans or 5-gallon pails.

Primers, Basecoats and Topcoats have 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

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. 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.

Product is moisture-temperature cured. Dry climates and low temperatures will greatly extend cure times. Product is contaminated by alcohol products while liquid. Do not clean any tools or areas with products containing any alcohol.

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, Solvent, Epoxy Resin 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.