

Description:

The Polycoat® PC-IM 129 System is a two component, liquid applied, asphalt extended aromatic polyurethane waterproofing membrane system. The system utilizes two coats of Polycoat® PC-IM 129 with an optional polyester inner-ply mat. This system adheres to asphalt, concrete, wood and metal substrates. It is durable and will provide trouble free waterproofing. It is an elastomeric system designed to expand and contract with normal structural movements. The Polycoat® PC-IM 129 waterproofing system has a watertight monolithic surface. This system has a wide range of uses and is ANSI / NSF 61 approved for contact with Potable Water. Make sure to use the correct grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.



Features	Typical Usage
<ul style="list-style-type: none"> • ANSI / NSF 61 Approved • Bridges Cracks and Joints • Economical • Impervious To Water and Aqueous Chemicals • Low VOC • Miami Dade Approval NOA No.: 23-0623.02 • Seamless 	<ul style="list-style-type: none"> • Containment • Pond Liner • Potable Water Containment • Reservoirs (with scrim) • Tank Liner • Waterproofing Roofing (with scrim)

Common Substrates

- | | |
|-----------|------------|
| • Asphalt | • Concrete |
| • Metal | • Steel |
| • Wood | |

Approvals, Codes and Testing

- ANSI / NSF 61
- ASTM C-836
- Miami Dade Approval NOA No.: 23-0623.02

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.

Technical Data

Aromatic Polyurethane Waterproof Membrane	58 Dry Mills, (1473 microns) NSF 61 Approved for Portable Water
Primer	Polyprime® 2180SC Polyprime® U Polyprime® EBF-LV
Topcoat	Polycoat® PC-IM 129

Packaging

Polyprime® 2180SC, Polyprime® U and Polyprime® EBF-LV	<p><u>2-gallon kit:</u> One 1 gallon (3.78 liters) can of Side-A and One 1 gallon (3.78 liters) can of Side-B</p> <p><u>10-gallon kit:</u> One 5 gallon (18.9 liters) pail of Side-A and One 5 gallon (18.9 liters) pail of Side-B</p>
Polycoat® PC-IM 129	<p><u>4.5-gallon kit</u> (17 liters): One 1/2 gallon jar, net fill 0.45 gallon (1.70 liters) of Side-A and One 5 gallon pail, net fill 4.05 gallon (15.30 liters) of Side-B</p>

Application

ASPHALT/CONCRETE/STEEL/METAL

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" (10/16 cm) 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.

Cracks in asphalt/concrete over 1/8" (0.125 cm) must be filled with PC-260. Place scrim over crack and apply 10-20 mils (2.54-5.08 cm). Allow to cure 2 to 4 hours.

Note: The concrete substrate must be primed with Polyprime® 21 in submerged conditions.

New asphalt and new concrete must be cured a minimum of 28 days prior to application. Old asphalt/concrete must be free of loose aggregate, dirt and be dry. New and old concrete should be shot blasted, water blasted or abrasive blasted. Grease spots and oil should be cleaned with appropriate cleaners.

Note: To promote adhesion and minimize outgassing, recommended Polyprime® primer should be used on all surfaces except for new plywood, where it is optional.

PHASE 2:

Prime the required surfaces with Polyprime® 2180SC for metal or concrete surfaces or Polyprime® U for asphalt surfaces at a rate of 1 gallon/300 sqft (0.14 liters/sqm) or 300 sqft/gallon. Apply using a brush or phenolic core roller. This will result in 5 dry mils (127 microns) of coating. *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 (0.21 liters/sqm) or 200 sqft/gallon; this rate may vary on the porosity of the substrate. Allow primer to become tack free before proceeding to Phase 3.

PHASE 3:

The first coat of Polycoat® PC-IM 129 (a mixture of Side-A and Side-B) should be applied at a rate of 2 gallons/100 sqft (0.82 liters/sqm) or 50 sqft/gallon resulting in 29 ± 2 dry mils (737 ± 51 microns) of membrane. For roofs, ponds and reservoirs, immediately embed scrim where required into 10-15 mils (2.54 -3.81 microns) of wet coating, overlapping each edge a minimum of 1 inch (2.54 cm). Use a dry phenolic core roller to press the scrim into the coating, creating a bond between the coating and the scrim.

On other substrates, skip scrim and proceed to Phase 4. Allow to cure (to touch) before proceeding to Phase 4.

PHASE 4:

Apply the second coat of Polycoat® PC-IM 129 (mixture of Side-A and Side-B) at the rate of 2 gallons/100 sqft (0.82 liters/sqm) or 50 sqft/gallon resulting in 29 ± 2 dry mils (737 ± 51 microns) of membrane.

FINISHED SYSTEM:

When applied as directed, the Polycoat® PC-IM 129 waterproofing system will provide 58 dry mils (1473 dry microns), exclusive of fabric or topcoat, of superior waterproofing. Any optional adhesion test is to be performed seven days after product application.

RECOAT:

At 75°F (24°C) and 50% relative humidity, recoating and multiple or second coats must be completed within eight (8) hours of previous applications of Polycoat® PC-IM129. After this eight (8) hour window, it is necessary to abrade, clean and prime surface prior to recoating.

Abrading shall be by grinder or other mechanical means.

SCRIM:

Optional: Use Tietex T272 Polyester Scrim or equal.

Limitations and Requirements

If substrates are not clean and dry, Polycoat® PC-IM 129 will not have good adhesion and the coating over concrete will blister. For concrete cleaning see General Guidelines. Concrete/asphalt: the outside temperature should be in a declining mode (installation should be done in the late afternoon). Coating should be applied at least 5°F (3°C) above the dew point. New concrete/asphalt and masonry must be cured for 28 days. 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.

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). UV stable, but the color may fade, chalk and discolor over time.

Coverage rates recommended are based on lab condition; applied at 75°F (24°C) ambient temperature and are intended to be minimum coverage rates 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.

The following conditions must not be coated with Polycoat Products deck coating systems or products: on grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, swimming pools, magnesite, lightweight concrete. Asphalt surfaces and asphalt overlays may be coated with Polycoat decking systems if first coated with the Polycoat® PC-IM 129. Do not apply Polycoat® PC-IM 129 in wet weather or if rain is imminent. Coating should not become wet within 4 hours after application. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

Warning

The products in this system contain Isocyanates and Solvent.

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.

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. Polycoat Products is not responsible for typographical errors.

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