



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

POLY-I-GARD® 246

40 Dry Mills, ICC-ES Evaluated, Vehicular Deck System

SYSTEM DESCRIPTION

The Poly-I-Gard® 246 vehicular deck system is a liquid applied, high solids, moisture cured waterproof system. The system utilizes an epoxy primer and one easy to use high tensile, aromatic urethane to complete the system. The Poly-I-Gard® 246 vehicular deck system is a user friendly application that is specifically designed to be tough and durable enough to withstand vehicular traffic. It is an elastomeric system designed to expand and contract with normal structural movements. The three coat application saves time and labor. Poly-I-Gard® 246 vehicular deck system can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on vehicular traffic decks. It will not soften in heat nor embrittle in cold. Installed and maintained properly, the Poly-I-Gard® 246 vehicular deck system will ensure years service.

APPROVALS, CODES & TESTING

- ❖ Class A Fire Rating on Concrete, UBC Standard 32-7, ASTM E-108, UL 790, NFPA 256
- ❖ ICC-ES Report ER-4789
- ❖ Los Angeles City General Approval Report #RR25171
- ❖ Meets the Criteria of ASTM C-957
- ❖ Meets the Criteria of ASTM C-1028 Co-efficient of Friction

FEATURES

- ❖ Seamless
- ❖ Chemical Resistance
- ❖ Recoatable
- ❖ Meets California VOC and AQMD Requirements
- ❖ Elastomeric
- ❖ Waterproof

TYPICAL USES

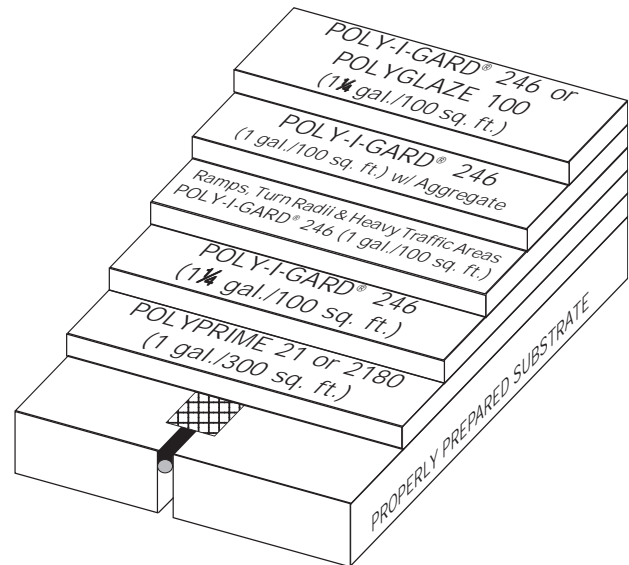
- ❖ Walkways and Stairs
- ❖ Concrete Roofs and Decks
- ❖ Over Occupied Space
- ❖ Vehicular Decks
- ❖ Helicopter Pads
- ❖ Balconies

PRODUCT INSTRUCTIONS

For complete information associated with the application of all Polycoat Products decking 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 of the Polycoat Products catalog. Apply a two-part paste consisting of PC-440 and PC-50 (0.9 liters per 18.9 liters). Mixing ratio is ½ pint of PC-50 to 1 gallon of PC-440 (0.24 liters per 3.78 liters) or 1 quart PC-50 to 5 gallons of PC-440 (0.9 liters per 18.9 liters). **Do not mix more material than can be used in 20 minutes.** Bridge the joints, cracks, and flashings with 3" (7.5 cm) Polyester Tape, pushing it into the paste with a trowel. Over Polyester Tape, apply a stripe



coat of the PC-440 and PC-50 mixture and taper it onto the adjacent surface. Allow the surface to cure for 6 to 8 hours.

Phase 2: Concrete and metal should be primed. Concrete should be primed with Polyprime 21 or 2180 at a rate of 1 gallon (mixture of Part-A & Part-B)/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. Allow Polyprime to become tack free before proceeding to Phase 3.

Steel flashings should only be primed with Polyprime 2180.

Phase 3: Apply catalyzed Poly-I-Gard® 246 to substrate at a rate of 1¼ gallons/100 sq. ft. (0.51 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 Poly-I-Gard® 246 evenly over the entire deck resulting in a 14 ± 2 dry mils (355 ± 51 microns) thick membrane. Allow Poly-I-Gard® 246 to cure a minimum of 16 hours.

Phase 4: Over ramps, turn radii, and other heavy traffic areas only, apply catalyzed Poly-I-Gard® 246 at a rate of 1 gallon/100 sq. ft. (0.41 liters/m²). Immediately 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. This coat will result in an additional 11 ± 2 dry mils (279 ± 51 microns) thick membrane, exclusive of aggregate. Before proceeding to Phase 5 allow Poly-I-Gard® 246 to cure a minimum of 16 hours.

Phase 5: Apply a second coat of catalyzed Poly-I-Gard® 246 over the entire surface, including heavy traffic areas, at a rate of 1 gallon/100 sq. ft. (0.41 liters/m²). Immediately 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. This coat will result in an additional 14 ± 2 dry mils (355 ± 51 microns) thick membrane, exclusive of aggregate. Before proceeding to Phase 6 allow Poly-I-Gard® 246 to cure a minimum of 16 hours.

Phase 6: Apply the third coat of catalyzed Poly-I-Gard® 246 or Polyglaze 100 topcoat at the rate of 1 ¼ gallon/100 sq. ft. (0.51 liters/m²) over the cured Poly-I-Gard® 246 with aggregate. This coat will result in an additional 11 ± 2 dry mils (279 ± 51 microns) thick membrane. At 70°F (21°C) and 50% relative humidity, allow 24 hours before permitting light foot traffic. Keep all vehicular traffic off the finished Poly-I-Gard® 246 vehicular deck system for at least 72 hours.

OPTIONAL FAST CURE

The use 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 Poly-I-Gard® 246 vehicular deck system will provide 40 dry mils, (ramps, turn radii, and other heavy traffic areas: 50 dry mils) exclusive of aggregate, of superior waterproofing protection and the assurance of a Class A Fire Rating.

STRIPING

It is recommended that an Epoxy paint be used for line striping.

PACKAGING

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

Polyprime 2180: 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).

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, on 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.

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 users 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.

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.

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.

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.