



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

POLY-I-GARD® 246SF

40 Dry Mills, ICC-ES Evaluated,
Low Odor, Vehicular Decking System
System Data Sheet

SYSTEM DESCRIPTION

The Poly-I-Gard® 246SF vehicular deck system is a solvent free, liquid applied, high solids, moisture cured waterproof system. The system utilizes an epoxy primer and one easy to use high tensile, solvent free, aromatic urethane to complete the system. The Poly-I-Gard® 246SF vehicular deck system is a user-friendly application of a low odor coating 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® 246SF 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® 246SF 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
- ❖ Meets the Criteria of ASTM C-957
- ❖ Los Angeles City General Approval Report #RR25171

FEATURES

- ❖ Solvent Free
- ❖ Low Odor
- ❖ Chemical Resistance
- ❖ Recoatable
- ❖ Meets California VOC and AQMD Requirements
- ❖ Seamless
- ❖ Elastomeric
- ❖ Waterproof

TYPICAL USES

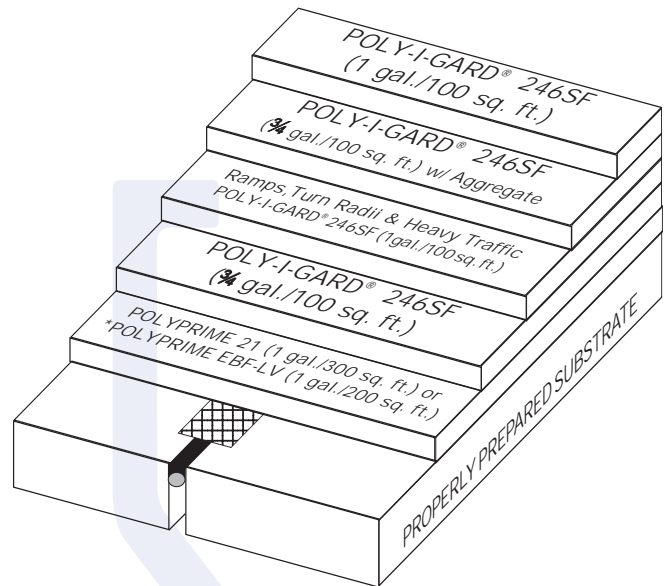
- ❖ Vehicular Decks
- ❖ Over Occupied Space
- ❖ Concrete Roofs and Decks
- ❖ Walkways and Stairs
- ❖ Balconies
- ❖ Helicopter Pads

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 that 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 PC-260 or a two-part paste consisting of PC-440SF and PC-50. Bridge the joints, cracks, and flashings with 3" (7.5 cm) Polyester Tape, pushing it into the PC-260 or paste with a trowel. Over Polyester Tape, apply a stripe coat of the PC-260 or PC-440SF and PC-50 mixture and taper it onto the adjacent surface. Mixing ratio is ½ pint of PC-50 to 1 gallon of PC-440SF



(0.24 liters per 3.78 liters) or 1 quart PC-50 to 5 gallons of PC-440SF (0.9 liters per 18.9 liters). Do not mix more material than can be used in 20 minutes. Allow the surface to cure for 6 to 8 hours.

Phase 2: Concrete should be primed with Polyprime 21 at a rate of 1 gallon/300 sq.ft. Apply using a brush or phenolic core roller. This will result in a 3 dry mils (76 microns) thick membrane. Metal should only be primed with Polyprime 2180SC at a rate of 1 gallon/300 sq.ft. *Note: For rough or porous concrete, use Polyprime EBF-LV at an approximate rate of one gallon per 200 square feet; this rate may vary on the porosity of the substrate. Allow Polyprime to become tack free before proceeding to Phase 3.

Phase 3: Apply catalyzed Poly-I-Gard® 246SF to substrate at a rate of ¾ gallon/100 sq. ft. (0.31 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® 246SF evenly over the entire deck resulting in a 11 ± 2 dry mils (279 ± 51 microns) thick membrane. Allow Poly-I-Gard® 246SF to cure before proceeding to Phase 4.

Phase 4: Over ramps, turn radii, and other heavy traffic areas only, apply catalyzed Poly-I-Gard® 246SF at a rate of 1 gallon/100 sq. ft. (0.41 liters/m²). Immediately broadcast washed, dry, rounded sand, 16-20 mesh (0.0469-0.0331 in.; 1.19-0.841 mm), with 6.5+ Moh's minimum hardness into the wet Poly-I-Gard® 246SF at the rate of 10 lbs./100 sq. ft. or as required to achieve a slip-resistant finish. This coat will result in an additional 14 ± 2 dry mils (356 ± 51 microns) thick

membrane, exclusive of aggregate. Allow Poly-I-Gard® 246SF to cure before proceeding to Phase 5.

Phase 5: Apply a second coat of catalyzed Poly-I-Gard® 246SF over the entire surface, including heavy traffic areas, at a rate of ¾ gallon/100 sq. ft. (0.31 liters/m²). Immediately broadcast washed, dry, rounded sand, 20 mesh (0.0469 in.; 1.19 mm), with 6.5+ Moh's minimum hardness over the entire surface at a rate of 10 lbs/100 sq. ft. or as required to achieve a slip-resistant finish. This coat will result in an additional 11 ± 2 dry mils (279 ± 51 microns) thick membrane, exclusive of aggregate. Allow Poly-I-Gard® 246SF to cure before proceeding to Phase 6.

Phase 6: Apply the third coat of catalyzed Poly-I-Gard® 246SF at the rate of 1 gallon/100 sq. ft. (0.41 liters/m²) over the cured Poly-I-Gard® 246SF with aggregate. This coat will result in an additional 14 ± 2 dry mils (356 ± 51 microns) thick membrane. After 24 hours, allow light foot traffic only. Keep all vehicular traffic off the finished Poly-I-Gard® 246SF 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® 246SF 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.

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

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

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 & One 1 gallon can of Part-B) or 15 gallon kits (Two 5 gallon pails of Part-A & One 5 gallon pail of Part-B).

Polyprime 2180SC: 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.

Polyprime EBF-LV: 2 gallon kits: One 1 gallon can of Part-A Black Liquid and One 1 gallon can of Part-B White Liquid or 10 gallon kits: One 5 gallon pail of Part-A Black Liquid and One 5 gallon pail of Part-B White Liquid.

Topcoats: 1 gallon cans or 5 gallon pails.

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 that 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.

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.

For ease of application, solvent free materials should be applied in temperatures greater than 60°F (15°C).

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.

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, Epoxy Resin and Curatives.