



Concrete Substrate (properly prepared substrate)

Features	Typical Usage
<ul style="list-style-type: none"> • Chemical Resistance • Elastomeric • Primerless System • Rapid Return to Service • Recoatable • Seamless • Waterproof 	<ul style="list-style-type: none"> • Helicopter Pads • Vehicular Decks

Primers, base 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).

Description

The Poly-I-Gard™ E Vehicular Traffic Deck System consists of a fast curing, primerless, two-component polyurethane basecoat (PC-260 or PC-280) and two coats of a two component, 1:1 ratio, 100% solids, low modulus, low viscosity, moisture tolerant rapid setting epoxy. The system provides a durable waterproof surface capable of being subjected to heavy vehicular traffic. It protects against spalling, damage caused by freeze/thaw and chemicals commonly encountered on vehicular decks. The system will neither soften in hot weather nor embrittle in cold weather. When properly installed and maintained, the Poly-I-Gard E Vehicular Traffic Deck System will ensure years of service. Make sure to use the correct grade of products that comply with VOC regulations per applicable federal, state, county, city and other statutory and regulatory requirements. (Note: Consult the manufacturer to ascertain the need for a primer.).

Technical Data

**88 Dry Mills (2235 microns)
Vehicular Traffic Deck Coating System**

Primer (Optional)	Polyprime 2180 (Consult manufacturer)
Basecoat	PC-260 PC-280
Aggregate Coat	Poly-I-Gard™ E-7097
Topcoat	Poly-I-Gard™ 295

Packaging

PC-260	1-Gallon Kit: One 1 gallon can, net fill 0.8 gallons (3 liters) of Side-A and One quart can, net fill 0.2 gallons (0.76 liters) of Side-B 5-Gallon Kit: One 5 gallon pail, net fill 4 gallons (15.12 liters) of Side-A and One 1 gallon (3.78 liters) can of Part-B
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PC-280	1-Gallon Kit: One 1 gallon can, net fill 0.8 gallons (3 liters) of Side-A and One quart can, net fill 0.2 gallons (0.76 liters) of Side-B 5-Gallon Kit: One 5 gallon pail, net fill 4 gallons (15.12 liters) of Side-A and One 1 gallon (3.78 liters) can of Part-B
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Poly-I-Gard™ E-7097	10-gallon kit: 5 gallon pail of Side-A (18.9 liters) and 5 gallon pail of Side B (18.9 liters) 100-gallon kit: 50 gallon drum of Side-A (189 liters) and 50 gallon drum of Side B (189 liters)
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Poly-I-Gard™ 295	One 5 gallon (net 4 gallons, 15.12 liters) pail of Side-A and one 1/2 gallon (net 0.4 gallon, 1.51 liters) jar of Side-B.
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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. The concrete substrate must have an ICRI CSP 4-5 profile. 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" (10.2 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. A manufacturer approved single or two- component polyurethane sealant may also be used to bridge joints, cracks and flashings. Consult the manufacturer to ascertain the need for a primer.

PHASE 2:

Apply PC-260 or PC-280 to substrate at a rate of 1.5 gallons/100 sqft (0.61 liters/sqm) or 66 sqft/gallon. For best results, use a 1/8" (0.32 cm) notched trowel or notched squeegee. A 3/8" (0.965 cm) nap phenolic core roller may be used, but extra care should be taken to prevent air bubbles. Spread mixed PC-260 or PC-280 evenly over the entire deck resulting in a minimum 24 ± 2 dry mils (608 ± 50 microns) thick membrane. Allow PC-260 or PC-280 to cure before proceeding to Phase 3.

PHASE 3:

Apply Poly-I-Gard™ E-7097 to the substrate at a rate of 2 gallons/100 sqft (0.81 liters/sqm) or 50 sqft/gallon using a 3/16" (0.32 cm) notched squeegee. Immediately broadcast to rejection with a manufacture approved aggregate. Watch for shiny or wet spots and immediately broadcast these with more aggregate until the spots disappear. Allow Poly-I-Gard™ E-7097 to cure before proceeding. This will result in a 32 ± 2 dry mils (812 ± 50 microns) thick membrane.

PHASE 4:

Apply Poly-I-Gard™ E-7097 to the substrate at a rate of 2 gallons/100 sqft (0.81 liters/sqm) or 50 sqft/gallon using a 3/16" (0.32 cm) notched squeegee. Immediately broadcast to rejection with a manufacture approved aggregate. Watch for shiny or wet spots and immediately broadcast these with

more aggregate until the spots disappear. Allow Poly-I-Gard™ E-7097 to cure before proceeding. This will result in a 32 ± 2 dry mils (812 ± 50 microns) thick membrane.

PHASE 5:

Optional: Apply Poly-I-Gard™ 295 at a rate of 1 gallon/80 sqft or 80 sqft/gallon. This coat will result in an additional minimum 19 ± 2 dry mils (482 ± 50 microns) . Allow Poly-I-Gard™ 296 to cure before allowing traffic on the surface.

FINISHED SYSTEM:

When applied as directed, the Poly-I-Gard™ E-7097 Vehicular Traffic Deck System will provide 88 dry mils (2235 dry microns) exclusive of aggregate. This offers a superior and durable waterproofing system.

CURING:

MINIMUM CURING TIME FOR EPOXY BINDER AND AGGREGATE	
60°F (16°C)	6 Hours
65°F (18°C)	5 Hours
70°F (21°C)	4 Hours
75°F (24°C)	3 Hours
80°F (27°C)	2.5 Hours

STRIPING:

It is recommended that a manufacturer approved alkyd or epoxy paint is used for line striping.

Limitations

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, magnesite, or concrete with a structural integrity less than 3000 psi. Asphalt surfaces and asphalt overlays may be coated with Polycoat decking systems if first coated with the Polycoat™ PC-IM 129.

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-haired 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 (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). The 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, spalling, scaling, 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.

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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