



Concrete Substrate (properly prepared substrate)

Features	Typical Usage
<ul style="list-style-type: none"> Applied at Any Thickness Chemical Resistance Elastomeric Good Thermal Stability Meets USDA Criteria Non-Gassing Recoatable Seamless Very Rapid Setting Waterproof 	<ul style="list-style-type: none"> Balconies Concrete Roof and Decks Helicopter Pads Over Occupied Spaces Vehicular Decks Walkways/Stairs

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™ FC UE Vehicular Traffic Deck System is a very fast setting, rapid curing, 100% solids, polyurethane/polyurea, liquid applied, chemically-cured waterproofing coating system. The system utilizes a two component epoxy primer, a two component, non-gassing, thermal stable elastomeric basecoat, a two component, low modulus epoxy binder, and a two component, solvent free, hybrid aliphatic polyurea topcoat.

The Poly-I-Gard™ FC UE Vehicular Traffic Deck System is a user friendly, low odor coating system that is specifically designed to be tough and durable enough to withstand light

Technical Data

**54 Dry Mil (1372 +125 microns)
Vehicular Traffic Deck Coating System**

Primer	Polyprime®FMB
Base Coat	PC-280
Intermediate Coat	Poly-I-Gard™ E-7097
Topcoat	Poly-I-Gard™ 295

Packaging

Polyprime® FMB One 3.5 gallon pail, net fill 2 gallons (7.57 liters) of Side-A and One 1 gallon (3.78 liters) can of Side-B
15-gallon kit: Two 5 gallon (18.9 liters) pails of Side-A and One 5 gallon (18.9 liters) pail of Side-B

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 (0.78 liters) of Side-B or
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 Side-B

Poly-I-Gard™ E-7097 10 gallon kit: One 5 gallon pail (18.9 liters) of Side-A and One 5 gallon pail (18.9 liters) of Side-B

Poly-I-Gard™ 295 4.4-gallon kit: One 5-gallon pail, net fill 4-gallons (15.12 liters) of Side-A, and one 1/2 gallon (1.89 liters), net fill 0.4 gallon (1.512 liters) jar of Side-B



to heavy vehicular traffic. It is a high elongation, elastomeric system with properties allowing it to expand and contract with normal structural movements. It can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on pedestrian decks. It will neither soften in heat nor embrittle in the cold. Recommended system coverage mil thickness: vehicular traffic systems 54 ± 5 dry mils (1372 ± 125 dry microns). 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.

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. 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. All cracks in concrete substrates must be treated per Polycoat Architectural Details. Allow the surface to cure for 4 to 6 hours.

PHASE 2:

Concrete should be primed with Polyprime® FMB or at a rate of 1 gallon/150 sqft or 150 sqft/gallon. Apply using a brush or phenolic core roller. This will result in a 16 dry mils (406 micron) thick membrane. Please call your local representative for details. Metal should only be primed with Polyprime® 2180SC at a rate of 1 gallon/300 sqft or 300 sqft/gallon. Allow Polyprime® to become tack free before proceeding to Phase 3.

PHASE 3:

Apply PC-280 to substrate at a rate of 1.25 gallons/100 sqft (0.51 liters/sqm) or 80 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-280 evenly over the entire deck resulting in a minimum 19 ± 2 dry mils (483 ± 50 microns) thick membrane. Allow PC-280 to cure before proceeding to Phase 4.

PHASE 4:

Apply Poly-I-Gard™ E-7097 at a rate of 0.75 gallon/100 sqft (0.31 liters/sqm) or 83 sqft/gallon. Immediately broadcast and broadcast washed, dry, rounded sand, 20 mesh (1.19 mm), 6.5+ Mohs minimum hardness at a rate of 10-20 lbs/100 sqft 0.5-0.75 kg/sqm) or as required to achieve a slip-resistant finish and immediately backroll sand into the wet coating so that the sand is fully encapsulated. This coat will result in an additional minimum 12 ± 2 dry mils (305 ± 50 microns) thick membrane, exclusive of aggregate.

PHASE 5:

For ramps, turn radii, and other heavy traffic areas, apply Poly-I-Gard™ 295 over the entire surface at a rate of 1.5 gallon/100 sqft (0.61 liters/sqm) or 100 sqft/gallon. This coat will result in an additional 23 ± 2 dry mils (584 ± 50 microns) thick membrane. Allow the coating to cure a minimum of 3-4 hours at 70°F (21.2°C) and 50% RH or until tack free between coats, and a minimum of 36 hours before opening to vehicular traffic.

FINISHED SYSTEM:

When applied as directed, the Poly-I-Gard™ FC UE Vehicular Traffic Deck System will provide 54 dry mils (1372 ± 125 dry micron) 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 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 to be applied by professionals who have prior experience and training with the use and application of our materials, and who are fully aware of all Federal, State and local rules, regulations, and code requirements for storage, transportation, handling, installation, and application. Published technical data and instructions are subject to change without notice. Contact your local representative or visit our website for current technical data, SDS, instructions, and project specific recommendations. We warrant our products to be free of manufacturing defects and that they will meet our current published physical properties within the shelf life of products.

Our sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. We will not be liable for damages of any sort, including remote or consequential or punitive damages resulting from any claimed breach of any warranty whether expressed or implied. We will also not be responsible for use of this product in a manner to infringe on any patent held by others. No warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, adhesion, 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. We reserve the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator. Your sole and exclusive remedy against us shall be limited to the paid cost of the materials sufficient to replace any affected areas where product failure has occurred. The cost of replacement materials shall, in no event, exceed the value of the original purchase price of the products, subject to equitable reductions for time of use.

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