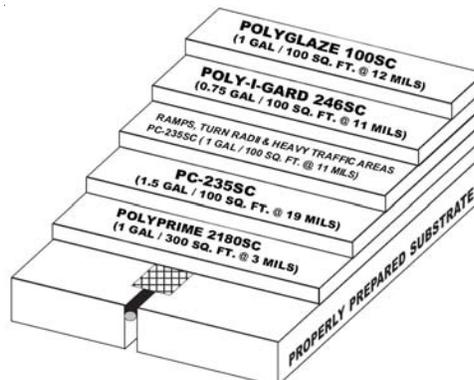




**POLYCOAT
PRODUCTS**
A Division of American Polymers Corp.

POLY-I-GARD® 435SC
42 Dry Mil
Vehicular Traffic Deck System
System Data Sheet

- POLY-I-GARD® 435SC**
42 Dry Mil Vehicular Traffic
Deck Coating System
- ❖ PC-235SC
 - ❖ Poly-I-Gard® 435SC
 - ❖ Polyglaze 100SC



POLY-I-GARD® 435SC Vehicular System

SYSTEM DESCRIPTION

The Poly-I-Gard® 435SC vehicular deck system is a liquid applied, high solids, moisture cured waterproof system. It is a user-friendly application that is specifically designed to be tough and durable enough to withstand vehicular traffic. The Poly-I-Gard® 435SC is an elastomeric system designed to expand and contract with normal structural movements.

The Poly-I-Gard® 435SC system saves time and labor. It 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® 435SC vehicular deck system will ensure years of service. Recommended system coverage mil thickness: vehicular traffic systems, 42 dry mils.

Typical Uses

- ❖ Vehicular Decks
- ❖ Parking Lots
- ❖ Walkways and Stairs
- ❖ Balconies
- ❖ Concrete Roofs and Decks
- ❖ Helicopter Pads

Benefits

- ❖ Seamless
- ❖ Chemical Resistant
- ❖ Recoatable
- ❖ Meets California VOC and AQMD Requirements, including SCAQMD Areas.

PRODUCT INSTRUCTIONS

For complete information associated with the application of all Polycoat Products decking systems and products, refer to the General Guidelines and Technical Bulletin sections of the Polycoat Products catalog, which describes the products, 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 information section. Prime all joints, cracks, flashings with approved primers as specified below in Phase 2. Apply a two-part paste consisting of PC-440SC and PC-50 over all joints, cracks and flashing. Mixing ratio is ½ pint of PC-50 to 1 gallon of PC-440SC (0.24 liters per 3.78 liters) or 1 quart PC50 to 5 gallons of PC-440SC (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 4" (10.2 cm) Straight Jacket Tape, pushing it into the paste with a trowel. Over Straight Jacket Tape, apply a stripe coat of the PC-440SC and PC50 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 with Polyprime 2180SC 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 2180SC to become tack free before proceeding to Phase 3.

Phase 3: Apply PC-235SC to substrate at a rate of 1 1/2 gallons/100 sq. ft. 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 PC-235SC evenly over the entire deck resulting in a minimum 19 ± 2 dry mils (482 microns) thick membrane. Allow PC-235SC to cure before proceeding to Phase 4.

Phase 4: Over ramps, turn radii, and other heavy traffic areas only, apply PC-235SC at a rate of 1 gallon/100 sq. ft. Immediately broadcast washed, dry, rounded sand, 20-30 mesh (0.0469-0.0331 in.; 1.19-0.841 mm), 6.5+ Moh's minimum hardness 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 minimum 11 ± 2 dry mils (279 microns) thick membrane, exclusive of aggregate. Allow PC-235SC to cure before removing all loose aggregate.

Phase 5: Apply Poly-I-Gard® 246SC over the entire surface, including heavy traffic areas, at a rate of .75 gallon/100 sq. ft. 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 as required to achieve a slip-resistant finish. This coat will result in an additional 9 dry mils (229 microns) thick membrane, exclusive of aggregate. Allow Poly-I-Gard® 246SC to cure before removing all loose aggregate.

Phase 6: Apply a final coat of Polyglaze 100SC topcoat at the rate of 1 gallon/100 sq. ft. over the cured Poly-I-Gard® 246SC with aggregate. This coat will result in an additional minimum 12 ± 2 dry mils (356 microns) thick membrane. At 75°F (24°C) and 50% relative humidity, allow 24 hours before permitting light foot traffic. Keep all vehicular traffic off the finished Poly-I-Gard® 435SC Vehicular Deck System for at least 72 hours.

OPTIONAL 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, the Poly-I-Gard® 435SC vehicular deck system will provide 45 dry mils (1016 dry microns), (ramps, turn radii, and other heavy traffic areas: 42 dry mils, (1270 dry microns) exclusive of aggregate, of superior waterproofing protection and the assurance of a Class A Fire Rating.

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 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).

PC-235SC: 5 gallon pail or 55 gallon drum net 50 gallons.

Poly-I-Gard® 246SC: 5 gallon pail or 55 gallon drum net 50 gallons.

Polyglaze 100SC: 1 gallon can, 5 gallon pail or 55 gallon drum net 50 gallons.

Primers, Basecoats 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).

COVERAGE GUIDE – Poly-I-Gard® 435SC Vehicular Traffic Deck Coating System

<i>Poly-I-Gard® 435SC Vehicular Traffic Deck = 42 mils</i>		
Phase 2	Polyprime 2180SC	Typically - 1 gal / 300 sq. ft. = 3-4 mils
Phase 3	PC-235SC	1.5 gal / 100 sq. ft. = 19 mils DFT OR 65 sq. ft. / gal
Phase 4	PC-235SC Over Ramps/Turns	1 gal / 100 sq. ft. = 11 mils DFT * 20-30 mesh rounded sand aggregate
Phase 5	Poly-I-Gard® 246SC	0.75 gal / 100 sq. ft. = 11 mils DFT OR 131 sq. ft. / gal * 20 mesh rounded sand aggregate
Phase 6	Polyglaze 100SC	1 gal / 100 sq. ft. = 12 mils DFT OR 98 sq. ft. / gal

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.