



Description

The Poly-I-Gard™ 575FR Under Tile waterproofing system is a solvent-free, liquid applied, high solids, aromatic polyurethane, waterproofing membrane. The system utilizes an epoxy-polyamine primer, two coats of a solvent free aromatic polyurethane polyurea coating and a heavy grit sand aggregate. The Poly-I-Gard™ 575FR Under Tile waterproofing system is a specialized application of a polyurethane coating as a waterproof underlayment for tile pavers. The system is durable and will protect surfaces against spalling and freeze/thaw damage. It is an elastomeric system designed to expand and contract with normal structural movements. The system will neither soften in heat nor embrittle in cold. The Poly-I-Gard™ 575FR Under Tile waterproofing system has a wide range of application uses and, installed properly will ensure years of service.

Features	Typical Usage
<ul style="list-style-type: none"> Durable Economical Elastomeric Low Odor Solvent Free Waterproofing 	<ul style="list-style-type: none"> Kitchens Restrooms Saunas Shower Pans Steam Rooms

Approvals, Codes & Testing

- ASTM C482
- ASTM C836
- ASTM D1204
- ASTM D4068
- ASTM D751
- ASTM D752
- ICC-ES Report ESR-2785
- Miami Dade NOA No:21-1207.01

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.

Application

PHASE 1:

Check area of application to ensure it conforms to substrate requirements. Prime all joints, cracks, and flashings with Polyprime® 2180SC. Apply two-part PC-260 over cracks and flashing. Do not mix more material than can be used in 20 minutes. Bridge the joints, cracks, and flashings with 4" (10 cm) Straight JacketTape pushing it into PC-260 with a trowel. Over Straight JacketTape apply a stripe coat of the PC-260 and taper it onto the adjacent surface. Allow the surface to cure for up to 6 to 8 hours.

Technical Data

Below Tile, Waterproof Membrane System	ICC-ES Evaluated 48 Dry Mills, Solvent Free, Low Odor
Primer	Polyprime® 2180SC
Base Coat	PC-260
Intermediate Coat	Poly-I-Gard™ 295

Properties, Test Method, Requirements: US Results

Summary of Test Report Conducted by QAI Laboratories on the Poly-I-Gard 575FR UnderTile Waterproofing System

Fungus, ASTM C836-89, No Mold Growth, Section 4.1: No growth

Seam Strength, Section 4.2, ASTM D751, 16 lbs/2in. width: 29.4 lbs/2 in. width

Breaking Strength, ASTM D752-1989, Section 4.3, 170 psi: 385 psi

Dimensional Stability, ASTM D-1204, Section 4.1, 0.7% max.: +158°F Long. 0.12%, Trans. 0.11%: -15°F Long. -0.11%, Trans. -0.082%

Waterproofness, ASTM D-4068, Annex A2, Section 4.1, No water penetration, (24 inch water head): No water penetration

Shear Strength, ASTM C-482, Section 9.12, 50 psi: 7-day, 100 psi (Control); Water Immersion: 7-day, 59 psi: 4-week, 72 psi; 12-week, 60 psi; 100-day, 54 psi

Packaging

Polyprime® 2180SC

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

PC-260

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



Packaging (continued)

Poly-I-Gard 295

4.4-gallon kit: One gallon pail, net fill 4 gallons (15.5 liters) of Side-A and 1/2 gallon (net 0.4 gallon, 1.54 liters) jar of Side-B

PHASE 2:

Prime the surface with Polyprime® 2180SC at a rate of 1 gallon (mixture of Side-A & Side-B)/300 sqft (0.14 liters/m²) or 300 sqft/gallon. Apply using a brush or phenolic core roller. This will result in 5 dry mils (125 microns) of coating. Allow Polyprime® to become tack free before proceeding to Phase 3.

PHASE 3:

Apply a mixture of PC-260 to the substrate at a rate of 1.5 gallons/100 sqft (0.61 liters/sqm or 66 sqft/gallon. Do not mix more material than can be used in 20 minutes. For best results, apply using a notched trowel or squeegee. A phenolic core roller may be used but extra care should be taken to prevent air bubbles. Spread PC-260 evenly over the entire surface resulting in a 24 ± 2 dry mils (608 ± 50 microns) thick membrane. Allow PC-260 to cure before proceeding to Phase 4.

Phase 4:

Apply Poly-I-Gard™ 295 at a rate of 1.2 gallon/100 sqft (0.49 liters/sqm) or 83 sqft/gallon. Immediately broadcast washed, dry, angular sand, heavy, 16 grit (1.18mm) or larger aggregate into the final coat of Poly-I-Gard™ 295 until refusal. This coat will result in an additional minimum 19 dry mils (482 microns) thick membrane, exclusive of aggregate.

PHASE 5:

Allow the membrane to cure, remove the excess aggregate, and apply a thin set mortar when ready for tile installation. When utilizing a mortar bed over the Poly-I-Gard 575FR Under Tile waterproofing system, allow the completed membrane to cure prior to installation of the float. A water test can be conducted after 24 hours.

FINISHED SYSTEM:

When applied as directed, the Poly-I-Gard 575FR Under Tile waterproofing system will provide 48 ± 2dry mils (1215 - 1265 microns), exclusive of fabric, of superior waterproofing protection. Requires a continuous coating application. Any optional adhesion test is to be performed seven days after product application.

Limitations and Requirements

The following conditions must not be coated with Polycoat Products coating systems or products: Concrete over an

unvented metal pan, magnesite, lightweight concrete, asphalt surfaces and asphalt overlays. 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 and masonry must be cured for 28 days. Concrete cleaning (see General Guidelines). 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). 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, spallings, scalling, 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, Aromatic Hydrocarbons, Curatives and Solvents.



**POLYCOAT
PRODUCTS**

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GUIDE SPECIFICATIONS POLY-I-GARD™ 575FR UNDERTILE

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.

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