

SYSTEM SPECIFICATIONS

SECTION 2.1.3



FLEXIDECK® P-TW

ICC-Evaluated & LA County Approved Tile-Underlayment Waterproofing System

1.01 DESCRIPTION

Flexideck® P-TW is a solvent free, liquid applied, high solids, underlayment waterproofing system for ceramic tile, pavers and shower pan linings.

The system utilizes an epoxy-polyamine primer or solvent-free-urethane primer and two coats of a water catalyzed, urethane basecoat. Flexideck® P-TW is durable and will protect surfaces against spalling and freeze/thaw damage. The elastomeric system is designed to expand and contract with normal structural movements. The system will not soften in heat nor become brittle in cold. Flexideck® P-TW Deck System is ICC Evaluated and has a wide range of application uses and proper installation will ensure years of service. Be sure to use the right product grade that complies with VOC regulations as per federal, state, statutory bodies, county and city regulations/codes at the place of installation of product.

1.02 APPROVALS, CODES, & TESTING

- ICC-ES Report No. ER-2785
- ASTM D-1204
- LA City Report No. RR-25171
- ASTM D-4068
- LA City Report No. M-060012
- ASTM C-482
- ASTM D-751
- ASTM C-836
- ASTM D-752

1.03 FEATURES

- Waterproof
- Low odor
- Durable
- Fast curing
- Solvent free
- Elastomeric

1.04 TYPICAL USES

- Saunas
- Steam Rooms
- Kitchens
- Shower Pans
- Restrooms

1.05 PRODUCTS, COLORS & PACKAGING

Enviro-Grip™ EP#1

3-gallon kit: One 3.5 gallon pail containing net 2 gallons (7.57 liters) of Side-A blue liquid and a 1 gallon (3.78 liters) can of Side-B yellow liquid

15-gallon kit: Two 5 gallon (18.9 liters) pails of Side-A blue liquid, each containing 5 gallons, and one 5 gallon pail of Side-B yellow liquid, containing 5 gallons (18.9 liters)

P-Tuff® Classic

1 gallon (3.78 liter) can with a partial vial of catalyst 5 gallon (18.9 liter) pail with a full vial of catalyst

1.06 PRODUCT INSTRUCTIONS

A. For complete information associated with the application

of Flexideck® P-TW, refer to the General & Safety Guidelines section of the Poly-Tuff Systems International (PSI) catalog, which describes the surface preparation, job conditions, finishing details and other necessary information.

- B. All products/materials to be used on this system should be purchased from PSI or its distributors or approved by PSI. For details on individual product, please refer to Product Data Sheet.
- C. Refer to products data sheets for products referred in the System Specifications.

APPLICATION

2.01 SURFACE PREPARATION

- A. Check area of application to ensure that it conforms to the substrate requirements, as stated in the general guidelines section. Concrete surfaces require a medium sandpaper finish equal to or greater than an ICRI CSP #3. Surface preparation may be completed by shotblasting or using Poly-Tuff Profile and Etch cleaner. Peel and adhesion tests are recommended.
- B. Install a 100-200 sqft (9.30-18.58 sqm) mock up of the system to be installed and approve for aesthetics, color, texture, actual coverage rates and functionality before proceeding.
- C. For project specific recommendations, please contact PSI.

2.02 REPAIRS, CRACKS, JOINTS & FLASHING

- A. Apply a polyurethane caulk or P-Tuff® Classic mixed material over all joints, cracks and flashing. P-Tuff® Classic mixed material is a mixture of 4 parts P-Tuff® Classic and 1 part of water by volume.
- B. Bridge the joints, cracks, and flashings with 4" (10 cm) Straight Jacket Tape pushing it into the 30 mil (762 microns) prestripe of basecoat.
- C. Over reinforcement tape, apply a stripe coat of P-Tuff® Classic mixed material and taper it onto the adjacent surface. No crack chasing or prestripe is necessary with the use of Super Seal Tape (see Super Seal Tape Product Data Sheet).
- D. Allow the surface to cure for 1 to 2 hours.

2.03 PRIMING

- A. Prime surface with Enviro-Grip™ EP#1 at a rate of 1 gallon (mixture of Part- A & Part-B)/300 sqft (0.14 liters/m²) or 300 sqft/gallon. Apply using a brush or phenolic-core roller. This will result in 3-5 dry mils (76-127 microns) of coating.
- B. Allow primer to become tack free before proceeding to Coating Application. The point at which the primer is generally discerned as nearly tack free is when the primer passes the thumbprint test. The thumbprint test is defined by when a thumbprint is left in the primer and the primer does not transfer onto the thumb. If the primer has been allowed to remain tack free for more than 12 hours, it is necessary to solvent wipe the primed area and reprime.
- C. Primer is optional on new plywood.
- D. Metal flashings should be sealed with Super Seal Tape prior to the coating application. Metal flashings can also be primed with Enviro-Grip™ EP#2 after they have been mechanically abraded with an angle grinder and wire brush cup, followed by a rag with xylene-solvent wipe to remove loose particles or oil film.

2.04 COATING APPLICATION

- A. Apply mixed P-Tuff® Classic to substrate at a rate of 2 1/2 gallons/100 sqft (1.02 liters/m²) or 40 sqft/gallon. P-Tuff® Classic mixed material or water-catalyzed mixed P-Tuff® Classic is a properly homogeneous mixed mixture of four parts of P-Tuff® Classic and one part of water by volume. Application will require more or less material depending on substrate requirements.
- B. Use a notched trowel or squeegee to spread mixed P-Tuff® Classic evenly over the entire deck resulting in a minimum 30 dry mils (762 dry microns) thick membrane.
- C. Allow P-Tuff® Classic to cure a minimum of 4 to 8 hours or until

- firm enough to support the weight of the installer without damaging the product.
- D. Apply a second coat of mixed P-Tuff® Classic at a rate of 1 gallons/100 sqft (0.41 liters/m²) or 100 sqft/gallon.
- E. When P-Tuff® Classic begins to slightly gel, broadcast 16-20 (0.84-1.19 mm) or larger mesh silica sand with a minimum 6.5 Mohs hardness. The amount of sand used will vary. Normal usage is 20-30 lbs sand/100 sqft (0.98-1.46 kg/m²).
- F. When the P-Tuff® Classic is stiff enough to support the weight of the installer without damaging the coating, or when coating is dry (approximately 2-3 hours), remove all loose aggregate by sweeping, vacuum or blowing the excess aggregate off the deck.
- G. This coat will result in a minimum 12 dry mils (355 dry microns) thick membrane, exclusive of aggregate.
- H. Allow the membrane to cure a minimum of 12 to 16 hours, remove the excess aggregate, and apply thin set or mortar when ready for tile installation.
- When utilizing a mortar bed over the Flexideck® P-TW, allow the completed membrane to cure a minimum of 6-8 hours prior to installation of the float. A water test can be conducted after 24 hours.

2.05 FINISHED SYSTEM

- A. When applied as directed above, Flexideck® P-TW will provide 45 dry mils (1143 dry microns), exclusive of aggregate, of superior waterproofing protection. Coverage rates and cure times will vary depending on temperature, relative humidity, surface roughness and porosity, aggregate selection and embedment, and application technique. Coverage rates provided are optimal and are not guaranteed.
- B. Material mil thickness rates are calculated on the theoretical coverage for smooth substrate and do not account for the actual texture or substrate conditions in the field or at the time of application. Sample mock ups on the projects are recommended to determine the exact coverage rates necessary to waterproof the deck and acceptable standards. Imperfections, spalling, scalling, rough surfaces, potholes, slope correction and other irregular textured surfaces may be filled in with P-Tuff® Classic Sand or Rubber Slurry and are estimated outside the stated minimum coverage rates reflected on Product Data Sheets.



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2.06 LIMITATIONS

A. Concrete:

The following conditions must not be coated with PSI deck coating systems or products: on grade or below grade slabs,split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool, swimming pool decks without the use of Enviro-Grip™ 404FC primer and asphalt surfaces, and asphalt overlays without the express written consent of PSI. PSI Deck Coating is not recommended over magnesite, gypsum lightweight and where chained or studded tires may be used.

- 1. Concrete must exhibit 3000 psi minimum strength. An ICRI CSP 3 surface or greater is required for concrete surfaces to be coated.
- 2. New concrete must be cured for 28 days unless otherwise approved by PSI in writing. New 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. Light broom finished concrete should be power washed before coating application.
- 3. For concrete cleaning see General & Safety Guidelines.
- 4. Surface preparation may be completed by shotblasting or the use of Poly-Tuff Profile and Etch cleaner. Peel and adhesion tests are recommended.

B. Plywood:

- 1. The only acceptable grade of plywood is APA rated exterior grade or better.
- 2. The appearance characteristics of the panel grade should be considered.
- 3. Plywood should be new or cleaned and sanded (see General & Safety Guidelines).
- C. PSI Decking Systems will not withstand rising water tables or hydrostatic pressure on slab-on-grade decks.
- D. Uncured materials are sensitive to heat and moisture.
- E. A continuous coating application should ensure a deck with no lines or streaks.
- F. The substrate must be structurally sound and sloped for

proper drainage.

G. PSI assumes no liability for substrate defects.

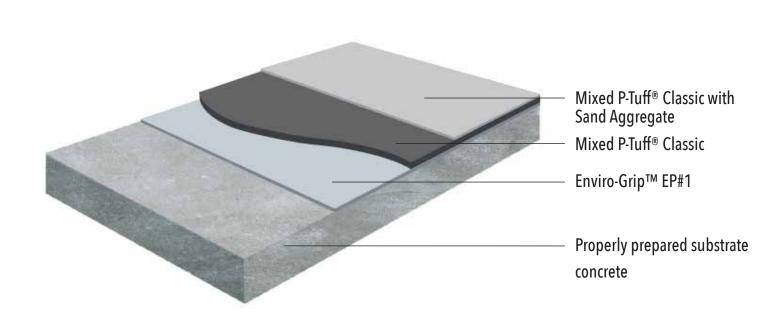
2.07 JOB COMPLETION

- A. Equipment should be cleaned with a urethane grade, environmentally-safe solvent, as permitted under local regulations, immediately after use.
- B. Field visits by PSI 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 solvent, isocynates, epoxy resin, and curatives.

COVERAGE RATE CHART

Primer: Enviro-Grip™ EP#1	Basecoat: mixed P-Tuff® Classic	Topcoat
1 gallon/300 sqft (0.141 liters/m ²)	1st: 2 1/2 gallons/100 sqft (1.02 liters/m²)	NONE
300 sqft/gallon	40 gallons/sqft	To be covered by Thinset
	2nd: 1 gallon/100 sqft (0.41 liters/m²)	
	100 gallon/sqft	



Please read all information in the General & Safety Guidelines, Product Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. PSI Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with the PSI Products or have undergone training in application of PSI Products. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data, instructions, and project specific recommendations.

LIMITED WARRANTY

PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical properties. PSI warrants that its products, when properly installed by a state licensed waterproofing contractor according to PSI guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PSI 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. PSI 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. PSI 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 PSI makes no claim that these tests or any other tests, accurately represent all environments.

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