



# FLEXIDECK® B-306

A Fast Setting, Rapid Curing Pedestrian Deck System with B-Tuff® 306

## 1.01 DESCRIPTION

Flexideck® B-306 Vehicular Pedestrian Traffic Deck System is a very fast setting, rapid curing, 100% solids, polyurethane /polyurea, liquid applied, chemically cured, rapid return-to-service waterproof coating system. The system utilizes a two-component epoxy primer, a two-component, non-gassing, thermal stable elastomeric basecoat, and a two-component, solvent free, hybrid aliphatic polyurea topcoat.

Flexideck® B-306 is a user friendly, low odor coating system that is specifically designed to be tough and durable enough to withstand light to heavy vehicular pedestrian traffic. It's high elongation elastomeric system properties allow 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 vehicular pedestrian decks. It will not soften in heat nor embrittle in cold. Recommended system coverage mil thickness for a light vehicular Pedestrian Traffic Systems is 36 dry mils (914 microns) and for a heavy Pedestrian Traffic Systems is 48 dry mils (1219 microns). Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

## 1.02 FEATURES

- Can Be Applied At Any Thickness
- Environmentally Safe
- Excellent Low Temperature Flexibility
- Good Chemical Resistance
- Good thermal Stability
- Meets USDA Criteria
- Non-Gassing
- Recoatable
- Seamless
- Solvent Free
- Very Rapid Setting And Cure Times
- Meets: ASTM E-108, ASTM: C-957, Class A Fire Rating Passes UL-790

## 1.03 TYPICAL USES

- Vehicular Decks
- Balconies
- Kennels
- Pedestrian Traffic Decks
- Stadiums
- Stairs
- Walking Decks

## 1.04 PRODUCTS & 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 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 and 5 gallon (18.9 liters) pail of Side-B yellow liquid

### Enviro-Grip™ EBF-LV

2-gallon kit: 1 gallon (3.78 liters) can of Side-A black liquid and 1 gallon (3.78 liters) can of Side-B white liquid

10-gallon kit: 5 gallon (18.9 liters) pail of Side-A black liquid and 5 gallon (18.9 liters) pail of Side-B white liquid

### B-Tuff® 306

1-gallon kit: 1 gallon can, net 0.8 gallon (3.03 liters) of Side-A and 1 quart can, net 0.2 gallons (0.78 liters) of Side-B

5-gallon kit: 5 gallon pail, net 4 gallons (15.15 liters) of Side-A and 1 gallon can, net 1 gallon (3.78 liters) of Side-B

### Topshield® 5600

4.4-gallon kit: 5 gallons (net 4 gallons, 15.1 liters) pail of Side-A and 1/2 gallon (net 0.4 gallon, 1.5 liters) jar of Side-B.

## 1.05 PRODUCT INSTRUCTIONS

For complete information associated with the application of Flexideck® B-306, refer to the General & Safety Guidelines of the Poly-Tuff Systems International (PSI) catalog which describes the surface preparation, job conditions, finishing details and other necessary information.

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 Technical Data Sheet.

For project specific recommendations, please contact PSI. Refer to Technical Data Sheets for products referred in the System Specifications.

## APPLICATION

### 2.01 SURFACE PREPARATION

Check area of application to ensure that it conforms to the substrate requirements, as stated in the General Guidelines and Safety 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 the use of P-Tuff™ PE Profile and Etch cleaner. Peel and adhesion tests are recommended.

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.

## 2.02 CRACKS, JOINTS AND FLASHING

A. Apply a single or two component non-gassing polyurethane sealant over all joints, cracks and flashing. .

B. Bridge the joints and cracks and flashing with 2 3/4 to 4" (7.0 to 10.14 cm) polyester or polyurethane foam tape pushing the tape into the 20 mil (508 microns) prestripe of the basecoat. Alternatively, joints and cracks 1/16"(0.15 cm) or larger may be sealed flush with PTS E-101 concealed with 4" (10 cm) Super-Seal™ Tape (concrete must be primed first and allow to dry).

C. Over reinforcement tape, apply a pre-stripe coat of B-Tuff® 306 material and taper it onto the adjacent surface. Alternatively, no crack chasing or pre-stripe is necessary with the use of Super Seal™ Tape over a primed surface (see Super Seal™ Tape Technical Data Sheet).

D. Allow the surface to cure for 1 to 2 hours.

## 2.03 PRIMING

A. Prime surface with Enviro-Grip™ EP#1 or EBF-LV at a rate of 1 gallon/300 sqft (0.14 liters/sqm) 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. Rough and pin-holed concrete surfaces may require more primer. Discovery of these issues is generally revealed in the mock up. See the Tech-Note Section of the PSI website. Do not allow primer to puddle, dry roll excess primer with a dry nap roller to pick up excess primer in puddles and overlaps.

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, followed by a rag with xylene-solvent wipe to remove loose particles or oil film.

## 2.04 BASECOAT APPLICATION

A. Apply B-Tuff® 306 to the substrate at a rate of 1 1/2 gallons/100 sqft (0.61 liters/sqm) or 75 sqft/gallon. 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 B-Tuff® 306 evenly over the entire deck resulting in a 22 ± 2 dry mils (559 ± 51 microns) thick membrane. Allow B-Tuff® 306 to cure before proceeding. Recoats must be done within 24 hours of cure. Application will require more or less material depending on substrate conditions.

B. Time for thickening to a firm sticky condition is dependent on atmospheric environments especially temperature and humidity.

Allow coating to cure 2-4 hours before proceeding to subsequent coats.

C. When B-Tuff® 306 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, sweeping, vacuum or by blowing excess aggregate off the deck.

## 2.05 TOPCOAT APPLICATION

A. Apply desired color of Topshield® 5600 at a rate of 3/4 gallon/100 sqft (0.31 liters/sqm) or 133 sqft/gallon. This coat will result in an additional 12 ± 2 dry mils (308 ± 50 microns) thick coating. This is for light pedestrian traffic.

B. Broadcast and backroll 5-10 lbs/100 sqft (0.245-0.49 kgs/sqm) of 16-20 (0.84-1.19 mm) or larger mesh silica sand with a minimum 65 Mohs hardness scale. The amount of sand used will vary.

C. At 70°F (21°C) and 50% relative humidity allow a minimum of 16 and a maximum of 48 hours for topcoat to cure.

D. It is recommended for heavy pedestrian traffic to apply the first coat of desired color of Topshield® 5600 at a rate of 1 1/2 gallon/100 sqft (0.61 liters/sqm) or 67 sqft/gallon. This coat will result in an additional minimum 24 ± 2 dry mils (609 ± 50 microns) thick coating.

## 2.06 FINISHED SYSTEM

When applied as directed above, Flexideck® B-306 Decking System will provide minimum 36 ± 5 dry mils (914 ± 125 dry microns) with 3/4 gallons of topcoat and minimum 48 ± 5 dry mils (1219 ± 125 dry microns) with 1 1/2 gallons of topcoat, 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.

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 Technical Data Sheets.

## 2.07 JOB COMPLETION

Equipment should be cleaned with a urethane grade, environmentally-safe solvent, as permitted under local regulations, immediately after use.

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.



## 2.08 LIMITATIONS

- Uncured materials are sensitive to heat and moisture.
- PSI assumes no liability for substrate defects.
- A continuous coating application should ensure a deck with no lines or streaks.
- The substrate must be structurally sound and sloped for proper drainage.
- PSI Decking Systems will not withstand rising water or hydrostatic pressure from on-grade concrete without the use of Enviro-Grip™ 404FC Primer (see Enviro-Grip™ 404FC technical data sheet).

### A. Concrete:

The following conditions must not be coated with PSI deck coating systems or products:

1. 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, or areas where hydrostatic pressure is or may be present, without the use of Enviro-Grip™ 404FC primer and asphalt surfaces, 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.
2. Concrete must exhibit 3000 psi minimum strength. An ICRI CSP 2-3 surface or greater is required for concrete surfaces to be coated.
3. 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.
4. Concrete cleaning (see General and Safety Guidelines). Surface preparation may be completed by shotblasting or the use of P-Tuff™ PE Profile and Etch cleaner. Peel and adhesion tests are recommended.

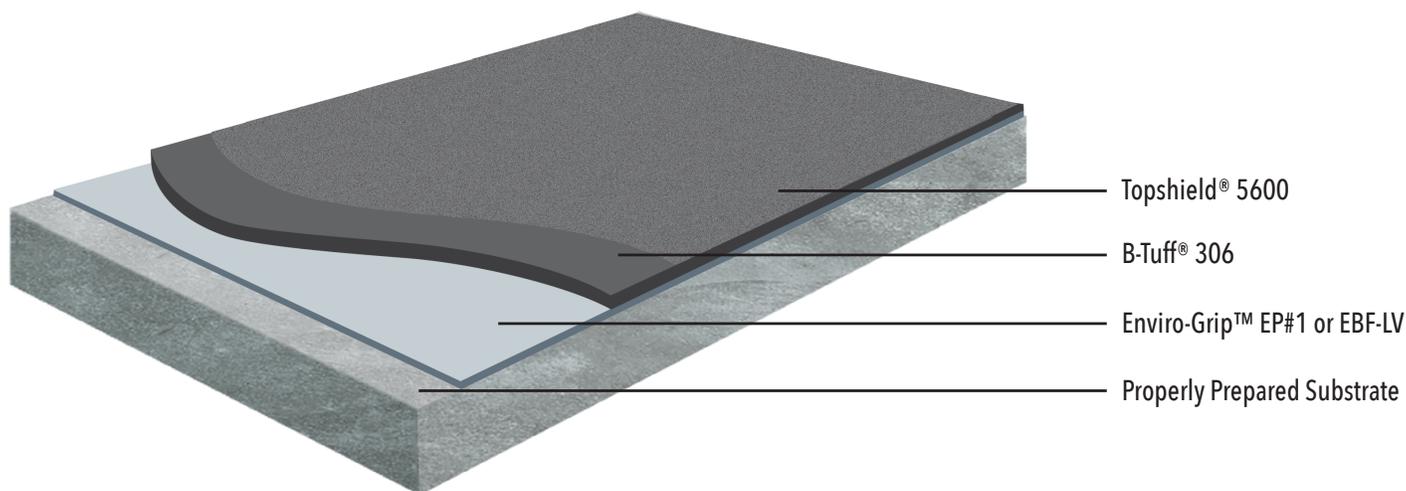
### B. Plywood:

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).

**WARNING: The products in this system contain isocyanates, solvent, epoxy resin and curatives.**

COVERAGE RATE CHART		
PRIMER: Enviro-Grip™ EP#1 or EBF-LV	BASECOAT: B-Tuff® 306	TOPCOAT: Topshield® 5600
1 gallon/300 sqft (0.14 liters/sqm) or 300 sqft/gallon	1 1/2 gallons/100 sqft (0.61 liters/sqm) or 75 sqft/gallon	<b>Light traffic:</b> 3/4 gallons/100 sqft (0.31 liters/sqm) or 133 sqft/gallon
*Primer is optional on new plywood		<b>Heavy Traffic:</b> 1 1/2 gallons/100 sqft (0.61 liters/sqm) or 67 sqft/gallon

## FLEXIDECK® B-306



Please read all information in the General & Safety Guidelines, Technical 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. With preapproval, PSI warrants that its products, when properly installed by a state licensed waterproofing contractor according to PSI guide specifications and Technical 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.