FLEXIDECK® B-302
A 40 Dry Mils, Moisture-Cured Pedestrian Deck System with B-Tuff® 302

1.01 DESCRIPTION
Flexideck® B-302 is a seamless, crack free and joint-free deck coating system for pedestrian applications. The system is a liquid applied, high solids, water-catalyzed polyurethane, waterproof Pedestrian Deck System.

The Flexideck® B-302 system is for light service and is a liquid applied, moisture cured, polyurethane-waterproof system. The system utilizes an epoxy primer, one coat of an aromatic polyurethane basecoat, one intermediate coat of an aromatic polyurethane with aggregate, and one aliphatic polyurethane topcoat. The Flexideck® B-302 balcony/walking deck system is a specialized application of elastomeric waterproof coatings designed to expand and contract with normal structural movements. The Flexideck® B-302 balcony/walking deck system can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on these surfaces. Installed and maintained properly, the Flexideck® B-302 balcony/walking deck system 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 FEATURES
- Seamless
- Recountable
- Elastomeric
- Waterproof

1.03 TYPICAL USES
- Walkways/Stairs
- Sun Deck
- Balconies
- Patios

1.04 PRODUCTS & PACKAGING
Enviro-Grip™ EP#2
- 2-quart kit: One quart (0.946 liter) can of Side-A black liquid, and one quart (0.946 liter) can of Side-B white liquid
- 2-gallon kit: One gallon (3.78 liter) can of Side-A black liquid, and one gallon (3.78 liter) can of Side-B white liquid
- 10-gallon kit: one 5 gallon (18.9 liter) pail of Side-A black liquid, and one 5 gallon (18.9 liter) pail of Side-B white liquid

Enviro-Grip™ EBF-LV
- 2-gallon kit: One gallon (3.78 liter) can of Side-A black liquid and one gallon (3.78 liter) can of Side-B white liquid
- 10-gallon kit: One 5 gallon (18.9 liter) pail of Side-A black liquid and one 5-gallon (18.9 liters) pail of Side-B white liquid

B-Tuff® 302/302 SC/302 NG
- 5 gallon (18.9 liters) pail
- 55 gallon drum, net fill 50 gallons (189 liters)

Topshield® EST
- 1 gallon (3.78 liter) can
- 5 gallon (18.9 liter) pail

Topshield® ALP-150
- 1 gallon (3.78 liter) can
- 5 gallon (18.9 liter) pail

1.05 PRODUCT INSTRUCTIONS
A. For complete information associated with the application of Flexideck® B-302, 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 the use of 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.
The Flexideck® B-302 system is for light service and is a liquid applied, moisture cured, polyurethane-waterproof system.

1.01 DESCRIPTION

polyurethane with aggregate, and one aliphatic polyurethane topcoat. The Flexideck® B-302 balcony/walking deck system utilizes an epoxy primer, one coat of an aromatic polyurethane basecoat, one intermediate coat of an aromatic liquid applied, high solids, water-catalyzed polyurethane, waterproof Pedestrian Deck System.

A. When applied as directed above, Flexideck® B-302

D. Optional Fast Cure Topcoat: The addition of Topshield®

1 gallon (3.78 liter) can

5 gallon (18.9 liter) pail

and one 5 gallon (18.9 liter) pail of Side-B white liquid

and one gallon (3.78 liters) can of Side-B white liquid

Rubber Slurry and are estimated outside the stated surfaces may be filled in with P-Tuff® Classic Sand or

are recommended to determine the exact coverage rates

2.01 SURFACE PREPARATION

Concrete:

Coverage rates provided are optimal and are not guaran-

tion.

humidity, surface roughness and porosity, aggregate
cure times will vary depending on temperature, relative

Data Sheet.

concrete droppings that would be mechanically

loose particles, and shall be without ridges, projections,

voids and concrete droppings that would be mechanically

should be considered.

G. PSI assumes no liability for substrate defects.

F. The substrate must be structurally sound and sloped for

or hydrostatic pressure on slab-on-grade decks.

E. A continuous coating application should ensure a deck

D. Uncured materials are sensitive to heat and moisture.

B. Install a 100-200 sqft (9.30-18.58 sqm) mock up of the

A. Check area of application to ensure that it conforms to the

1. Concrete must exhibit 3000 psi minimum strength. An

2. New concrete must be cured for 28 days unless

overlays without the express written consent of PSI. PSI

texture, actual coverage rates and functionality before

C. Over reinforcement tape, apply a pre-stripe coat of B-Tuff® 302 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 Data Sheet).

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

2.03 PRIMING

A. Prime surface with Enviro-Grip™ EP#2, or EBF-LV at a rate of 1 gallon/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. 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 COATING APPLICATION

A. Apply B-Tuff® 302/302 SC/302 NG to the substrate at a rate of 2 gallons/100 sqft (0.82 liters/m²) or 50 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® 302/302 SC/302 NG evenly over the entire deck resulting in a 22 ± 2 dry mils (559 ± 51 microns) thick membrane. Allow B-Tuff® 302 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. Apply a second coat of B-Tuff® 302/302 SC/302 NG at a rate of 3/4 gallon/100 sqft (0.31 liters/m²) or 122 sqft/gallon. Immediately broadcast washed, dry, rounded sand, 20 mesh (0.841 mm), 6.5 Mohs minimum hardness, at a rate of 20 lbs/100 sqft or as required to achieve a slip-resistant finish, into the wet second coat, covering it completely. This coat will result in a 8 ± 2 dry mils (203 ± 51 microns) thick membrane, exclusive of aggregate. After allowing to cure, remove all loose aggregate. Recoats must be done within 24 hours of cure.

C. 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.

D. When B-Tuff® 302/302 SC/302 NG 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 (approximately 2-3 hours), remove all loose aggregate. Alternatively, blow excess aggregate off the deck.

E. The addition of B-Tuff® Accelerator will shorten cure time to 4-8 hours for each coat. Recoat should occur 8-12 hours when surface becomes tack free.

2.05 TOPCOAT APPLICATION

A. Apply desired color of Topshield® EST or Topshield® ALP-150 at a rate of 1 gallon/100 sqft (0.4 liters/m²) or 100 sqft/gallon. This coat will result in an additional 10 ± 2 dry mils (254± 50 microns) thick coating.

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

C. It is recommended to apply a second coat of desired color of Topshield® EST Topshield® ALP-150 at a rate of 3/4 gallon/100 sqft (0.31 liters/m²) or 133 sqft/gallon. This coat will result in an additional minimum 8 ± 2 dry mils (203 ± 50 microns) thick coating. A second topcoat is required for a warranted system.

D. Optional Fast Cure Topcoat: The addition of Topshield® Accelerator will shorten cure time to 6 to 8 hours for each coat.

2.06 FINISHED SYSTEMS
A. When applied as directed above, Flexideck® B-302 Decking System will provide minimum 40 ± 5 dry mils (1016 ± 125 dry microns) with single topcoat and minimum 48 ± 5 dry mils (1219 ± 125 dry microns) with additional second 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.

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, scaling, 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.

2.07 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, 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. Concrete cleaning see General & Safety Guidelines.
4. Surface preparation may be completed by shot blasting 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.

2.08 JOB COMPLETION
A. Equipment should be cleaned with a urethane grade, environmentally-safe solvent, as permitted under local
1. DESCRIPTION

is a specialized application of elastomeric waterproof coatings designed to expand and contract with normal structural load-bearing polyurethane with aggregate, and one aliphatic polyurethane topcoat. The Flexideck® B-302 balcony/walking deck system uses a liquid applied, high solids, water-catalyzed polyurethane, waterproof Pedestrian Deck System.

2. LIMITATIONS

A. When applied as directed above, Flexideck® B-302 performs well in most applications. However, the following conditions must not be coated with PSI deck systems:

- New concrete must be cured for 28 days unless otherwise approved by PSI in writing. New surfaces to be coated must be free of moisture and have a dry surface.
- Concrete: 
  - At least 7 days old
  - assure proper drainage.
- Suspended pool, swimming pool decks without the use of fiberglass or reinforced concrete base and suspended pool, swimming pool decks: 
  - may require additional protection from the pool water.
- Gypsum lightweight and where chained or studded tires may be required for a warranted system.
- Asphalt: may require additional protection from the asphalt environment.
- Exterior grade or better:
  - B-Tuff® 302/302 SC/302 NG
  - Enviro-Grip™ EBF-LV

B. Install a 100-200 sqft (9.30-18.58 sqm) mock up of the system to be installed and approve for aesthetics, color, performance, and application.

C. It is recommended to apply a second coat of desired color of Topshield® EST or Topshield® ALP-150 to achieve the desired finish.

D. Optional Fast Cure Topcoat: The addition of Topshield® EST or Topshield® ALP-150 will provide a superior waterproofing protection.

E. A continuous coating application should ensure a deck is waterproof.

F. Water may displace the coating, and it is recommended to use an additional waterproofing membrane such as a breathable membrane or a water-based acrylic membrane.

G. PSI assumes no liability for substrate defects.

3. TYPICAL USES

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

- Imperfections, spalling, scaling, rough surface:
  - remove all loose aggregate, sweeping, vacuum or by hand
  - concrete: 
    - 100-200 sqft (9.30-18.58 sqm) mock up
    - concrete must be cured for 28 days unless otherwise approved by PSI in writing.
    - new concrete to be coated must be free of moisture and have a dry surface.
  - concrete: 
    - assure proper drainage.
  - suspended pool, swimming pool decks: 
    - may require additional protection.
  - exterior grade or better:
    - B-Tuff® 302/302 SC/302 NG
    - Enviro-Grip™ EBF-LV

- Waterproofing:
  - Flexideck® B-302 balcony/walking deck system
  - liquid applied, high solids, water-catalyzed polyurethane

- Pedestrian Deck System:
  - waterproof:
    - Flexideck® B-302 balcony/walking deck system
    - liquid applied, high solids, water-catalyzed polyurethane

4. COATING APPLICATION

A. Check area of application to ensure that it conforms to the guidelines provided in the General & Safety Guidelines.

B. Install a 100-200 sqft (9.30-18.58 sqm) mock up of the system to be installed and approve for aesthetics, color, performance, and application.

C. It is recommended to apply a second coat of desired color of Topshield® EST or Topshield® ALP-150 to achieve the desired finish.

D. Optional Fast Cure Topcoat: The addition of Topshield® EST or Topshield® ALP-150 will provide a superior waterproofing protection.

E. A continuous coating application should ensure a deck is waterproof.

F. Water may displace the coating, and it is recommended to use an additional waterproofing membrane such as a breathable membrane or a water-based acrylic membrane.

G. PSI assumes no liability for substrate defects.

5. TOPCOAT APPLICATION

A. Apply desired color of Topshield® EST or Topshield® ALP-150.

B. Apply a second coat of B-Tuff® 302/302 SC/302 NG at a rate of 2 gallons/100 sqft (0.82 liters/m²).

C. Time for thickening to a firm sticky condition is dependent on the actual texture or substrate conditions in the field or at the job site.

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

E. A continuous coating application should ensure a deck is waterproof.

F. Water may displace the coating, and it is recommended to use an additional waterproofing membrane such as a breathable membrane or a water-based acrylic membrane.

G. PSI assumes no liability for substrate defects.

6. REPAIRS, CRACKS, AND FLASHING

A. For complete information associated with the application 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 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 are not guaranteed and are not to be construed as a warranty, either expressed or implied.

B. Allow B-Tuff® 302 to cure before proceeding. Recoats must be done within 24 hours of cure.

C. For best results, use a notched trowel or squeegee. A solvent wipe to remove loose particles or oil film.

D. 2 dry mils (254± 50 microns) thick coating.

E. Rough and pin-holed concrete must be done within 24 hours of cure. Application will be limited to 3-5 dry mils (76-127 microns) of coating. Rough and pin-holed concrete surfaces to be coated must be free of moisture and have a dry surface.

F. Allow coating to cure 2-4 hours before proceeding. Application will be limited to 3-5 dry mils (76-127 microns) of coating. Rough and pin-holed concrete surfaces to be coated must be free of moisture and have a dry surface.

G. PSI assumes no liability for substrate defects.

H. Keying is necessary to bond coatings.

I. Be sure to remove any surface active agents prior to applying the primer.

J. Thumbprint is left in the primer and the primer does not dry roll. Excess primer with a dry nap roller to pick up excess primer in primer and the primer does not dry roll. Excess primer with a dry nap roller to pick up excess primer in primer and the primer does not dry roll.

K. Primer:

   - Basecoat: B-Tuff® 302/302 SC/302 NG
   - Topcoat: topshield® EST or ALP-150

<table>
<thead>
<tr>
<th>Primer: Enviro-Grip™ EP#2 or EBF-LV</th>
<th>Basecoat: B-Tuff® 302/302 SC/302 NG</th>
<th>Topcoat: topshield® EST or ALP-150</th>
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<tbody>
<tr>
<td>1 gallon/300 sqft (0.14 liters/m²)</td>
<td>2 gallon/100 sqft (1.2 liters/m²)</td>
<td>1st: 1 gallon/100 sqft (0.41 liters/m²)</td>
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<td>300 sqft/gallon</td>
<td>33.3 sqft/gallon</td>
<td>100 sqft/gallon</td>
</tr>
<tr>
<td>3/4 gallon/100 sq. ft. (0.31 liters/m²)</td>
<td>133 sqft/gallon</td>
<td>2nd: 3/4 gallon/100 sqft (0.31 liters/m²)</td>
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<td>133 sqft/gallon</td>
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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 are not guaranteed and are not to be construed as a warranty, either expressed or implied.

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