POLY-TUFF SYSTEMS INTERNATIONAL
WATERPROOFING DIVISION

TECHNICAL DATA SHEET
SECTION 3.2.9

B-TUFF® 5600

A Two Component, Solvent Free, Vehicular and Pedestrian Traffic Deck Coating with IRMA Waterproofing & Roofing Applications

1.01 DESCRIPTION

B-Tuff® 5600 is a warranted system that is high solids, low odor, low VOC waterproofing membrane system that consists of a two component fast cure, urethane/polyurea basecoat. B-Tuff® 5600 is used as a tough, roofing and waterproofing membrane to endure a broad range of construction applications where a heavy duty traffic grade waterproofing membrane is required. The Flexideck® 5600 Traffic Coating System is utilized for vehicular and pedestrian traffic decks as well as between slab or sandwich plaza deck waterproofing, IRMA roof applications and single ply roof coating. Please use the correct 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.installation of product.

1.02 FEATURES

- Applied At Any Required Thickness
- Compatible With Asphalt Roofing
- Controlled Cure
- Economical
- Fast Curing
- Fast Recoat Times
- Fills Ponds and Low Areas
- Highly Flexible Over Extreme Temperatures
- Labor Saving
- Leeds Qualified
- Low Odor
- Meets Scaqmd Voc Requirements
- Meets The Criteria Of Astm C-836 & E-96Bw
- No Heating Kettles
- Non-Gassing
- Not For Use In Scaqmd Areas
- Resistant To Bacterial Growth
- User Friendly

1.03 TYPICAL USES

- Between Slabs
- EPDM
- Foundation Walls
- Green Roof Waterproofing
- I.R.M.A Roofing
- Modified Cap Sheet
- Pedestrian Decks
- Polyurethane Foam
- Re-roofing
- Terrazzo and Tile Floors
- Under Malls, Plazas and Promenade Decks.
- Vehicular Parking Decks

1.04 COLOR

Medium grey, tan and white

TECHNICAL DATA (Based on draw down films)	
Adhesive Peel Strength on Primed Concrete; ASTM 0-903	40 pli (7.01 kN/m)
Cure Time at 75°F	2-4 hours
Dry Film Thickness, exclusive of aggregate; Per Coat at 1 gal/100 sqft (0.41 liters/sqm)	14.8 ± 2 mils (375 micron)
Flame Spread @ ASTM E-108	less than 25%
Hardness, ASTM D-2240 Shore A	85 ± 5
I.I.V. Stability, Q Panel Weather-O-Meter	2000 hours (No cracking or crazing; no physical damage)
Moisture Vapor Transmission, ASTM E-96	1.54 perms
Percent Elongation, ASTM 0-412	450 ± 10%
Percent Solids Content, ASTM 0-2369; Solids by Volume Solids by Weight	 92.8 ± 2% 95 ± 2%
Pot Life at 75°F	40 ±10 minutes
Tear Resistance, ASTM 0-624	300 ± 10% pli (52 kN/m)
Tensile Strength, ASTM 0-412	3200 ± 10% psi
Volatile Organic Compounds ASTM D-2369-81	< 0.5 lb/gal (< 60 gm/liter)
Water Absorption, ASTM 0-471	<1.3% by weight
Water Resistance ASTM D-2247	Passes (No cracking or crazing; erosion, delamination and no physical damage)
Class A Fire Rated (non-combustible deck)	Passes
Weight per Gallon	A-Component 9.10 lbs B-Component 8.01 lbs

Custom colors are also available. Minimum order of 250 gallons (945 liters). See color chart for special provisions.

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1.05 PACKAGING

4.5-gallon kit: 5 gallon pail, net 4.1 gallons (17.03 liters) of Side-A and 1 gallon can, net 0.4 gallon (1.51 liters) of Side-B

1.06 SURFACE PREPARATION

Refer to General and Safety Guidelines for complete information.

Concrete surfaces require a medium sandpaper finish equal to or greater than an ICRI CSP #3. Surface preparation may be completed by shot blasting or the use of Poly-Tuff 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, slip resistance, actual coverage rates and functionality before proceeding.

1.07 PRIMING

Primer is required on all substrates except plywood, where primer is optional. Enviro-Grip™ #1 is recommended in low odor conditions and Enviro-Grip™ #2 where low odor is not required.

1.08 MIXING

B-Tuff® 5600 and should be thoroughly mixed using a mechanical mixer at slow speed to ensure a homogeneous material. Take care not to allow entrapment of air into the material. The ratio of base to catalyst is ten parts Side-A to one part Side-B (10A:1B). Therefore, when catalyst is added to the base membrane, thorough mixing is required.

1.09 JOINTS, CRACKS, AND FLASHING

Apply a single or two component non-gassing polyurethane sealant over all joints, cracks and flashing. Bridge the joints and cracks and flashing with 2.75-4" (7-10.14 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" 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).

Over reinforcement tape, apply a pre-stripe coat of B-Tuff® 5600 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). Allow the surface to cure for 1 to 2 hours.

APPLICATION

2.01 APPLICATION BASICS

B-Tuff® 5600 shall be applied directly with a brush, squeegee, trowel or phenolic core roller at a minimum of 35 mils thick in one or more applications. Where desired, TieTex T-325 or T-326 may be used as a reinforcement for the B-Tuff® 5600 between the 20-40 mil coats (508-1016 microns). The fabric should be placed while the coating is wet or tacky and broomed into place leaving no air pockets or wrinkles.

2.02 COVERAGE RATES

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.

2.03 PROTECTION

B-Tuff® 5600 System requires the product be protected from damage during the construction phase.

2.04 ROOFING

B-Tuff® 5600 may be utilized as an exposed roof coating, with or without a covering. When roof granules or aggregate are applied, the coating is in the "thumbprint tacky" stage and before the coating loses its tack.

2.05 CURING

B-Tuff® 5600 is sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in thickness of application.

2.06 EQUIPMENT CLEANUP

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

2.07 SHELF LIFE AND STORAGE

B-Tuff® 5600 has a shelf life of 6 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

2.08 LIMITATIONS

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 Poly-Tuff Profile and Etch (PE) cleaner. Peel and adhesion tests are recommended.

WARNING: This product contains isocyanates and curative materials.

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 and chemical properties. 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 user's 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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