

B-TUFF® 308

A Two Component, Fast Setting, Rapid Curing, Solvent-Free Basecoat

1.01 DESCRIPTION

B-TUFF® 308 is a two component, fast setting, rapid curing, solvent free, flexible, high performance, high solids, urethane-elastomer base membrane that can be applied to prepared interior or exterior concrete, plywood and metal surfaces. Due to its fast gel time, B-Tuff® 308 is suitable for applications in temperatures as low as 20°F (-6.7°C). It may be applied in a single application or in multiple applications. B-Tuff® 308 is also relatively insensitive to moisture and temperature, allowing applications in various temperatures and humidity. 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
- Coats Green (Vented) Concrete
- Excellent Low Temperature Flexibility
- Expansion Joints
- Good Chemical Resistance
- Good Thermal Stability
- Interior or Exterior Applications
- Meets USDA Criteria
- Non Gassing
- Recoatable
- Seamless

1.03 TYPICAL USES

- Exterior & Interior Pedestrian Traffic Walkways, Patios, Stairways
- Interior Surfaces such as Mechanical Rooms
- Stalls, Wash Racks & Kennel Runs
- Sun Decks & Balconies
- Vehicular Traffic Areas

1.04 COLOR

Light Gray, Grey, Tan
Special color is available upon request with minimum order of 250 gallons (945 liters). Custom colors are also available with a minimum order of 250 gallons (945 liters). See color chart for special provisions.

1.05 PACKAGING

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

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 Profile and Etch cleaner. Peel and adhesion tests are recommended. Install a 100-200 sqft (9.30-18.58 sqm) mockup of the system to be installed and approve for aesthetics, color, slip resistance, actual coverage rates and functionality before

TECHNICAL DATA (Based on draw down films)	
Specific Gravity	Side A: 1.05 ± 0.1 Side B: 0.99 ± 0.1
Hardness ASTM D-2240 Shore A	80 ± 3
Pot Life (min @ 75°F [24°C], 50% RH)	10 ± 2 minutes
Tack Free Time	3-4 Hours
Tensile Strength, ASTM D-412	2500 ± 100 pli (17.2 ± 0.7 kN/m)
Elongation, ASTM D-412	800 ± 100%
Tear, ASTM D-624	300 ± 25 pli (52.5 ± 4.4 kN/m)
Viscosity, at 75°F (24°C)	Side-A: 1500-2500 cps Side-B: 50-150 cps
Total Solids by Weight, ASTM D-2369	94 ± 2%
Total Solids by Volume, ASTM D-2697	95 ± 2%
Volatile Organic Compounds ASTM D-2369-81	<0.49 lbs/gall (59 gm/liter)
*contains some high boiling plasticizers	

proceeding.

1.07 MIXING

Using a mechanical mixer, first premix separately Side-A and Side-B base material thoroughly to attain a uniform color, making sure to scrape the solids from the bottom and sides of the pail.

Pour Side-B into Side-A slowly and while mixing, scrape the sides of the container. Mix for 1-2 minutes. Box the materials. Mix the combined Side-A and Side-B mixture thoroughly until uniform color is attained.

NOTE: B-Tuff® 308 may NOT BE DILUTED under any circumstances. **DO NOT ESTIMATE: The proportions are premeasured.**

1.08 JOINTS, CRACKS, AND FLASHING

Apply a single or two component non-gassing polyurethane sealant over all joints, cracks and flashing. Bridge the joints, 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) pre-stripe 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® 308 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

For best results use a squeegee or notched trowel to spread B-Tuff® 308 evenly over the entire deck. B-Tuff® 308 should be applied at a temperature of 20°F (-6.7°C) and above. Curing time will depend on temperature.

B-Tuff® 308 may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil (25.4 microns) thickness is one gallon (3.78 liters) per 1520 sqft (141 sqm). Refer to individual Systems Description under System Specifications Section of the PSI catalog or website for specific coverage rates.

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 CURING

Curing time will depend on temperature. B-Tuff® 308 may be fully reinforced while wet. B-Tuff 308 has a relatively short pot life and should be mixed and used immediately. Do not mix the product until you are ready to apply it.

2.04 EQUIPMENT CLEANUP

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

2.05 SHELF LIFE AND STORAGE

B-Tuff® 308 has a shelf life of 12 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

2.06 LIMITATIONS

- Do not open until ready to use. Any off ratio mixing of the product will affect the properties and the product may not cure.
- B-Tuff® 308 should be used as a base membrane only. Topcoat must be applied.
- B-Tuff® 308 cannot withstand direct wear and abrasion.
- Keep out of direct sun.
- Contains some high boiling colorless plasticizers.

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

WARNING: This product contains isocyanates and curative materials.

RIO FLOORING SYSTEMS



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