B-TUFF® 302 NG
A Two Component, 250 VOC, Solvent-Free Basecoat for Concrete, Plywood and Metal

1.01 DESCRIPTION
B-Tuff® 302 NG is a single component, liquid applied, moisture cured, flexible, aromatic-urethane basecoat that can be applied to suitably prepared concrete, plywood and metal surfaces. Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of the installation of the product.

1.02 FEATURES
• Economical
• Moisture cured
• Proven Protection
• Seamless

1.03 TYPICAL USES
• Concrete
• Masonry Surfaces
• Metal
• Plywood
• Wood

1.04 COLOR
Grey or Tan

1.05 PACKAGING
5 gallon (18.9 liters) pail
55-gallon drum, net fill 50 gallons (189 liters)

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) mockup of the system to be installed and approve for aesthetics, color, slip resistance, actual coverage rates and functionality before proceeding.

1.07 MIXING
Before application, premix B-Tuff® 302 NG using a mechanical mixer (Jiffy Mixer) at slow speeds, or mix for at least 5 minutes if mixed by hand. Mix B-Tuff® 302 NG thoroughly until a homogeneous mixture and color is obtained. Use care not to allow the entrapment of air into mixture.

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 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® 302 NG 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). 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® 302 NG evenly over the entire deck. Make sure the dew point is 5°F (3°C) above the surface temperature. Curing time will depend on temperature. Apply B-Tuff® 302 NG evenly over the entire deck. Application should be continuous to ensure a smooth and level coat with no lines or streaks to disfigure the deck.

If accelerated curing time is required, add one quart (0.94 liters) of B-Tuff® 302 Accelerator to 5 gallons (3.78 liters) of B-Tuff® 302 NG and mix thoroughly. This accelerated B-Tuff® 302 NG will cure in 8 hours at 75°F (24°C) and 50% RH.

B-Tuff® 302 NG may be applied at 40-60 sqft/gallon (1 2/3 to 2 1/2

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**TECHNICAL DATA (Based on draw down films)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.26 ± 0.1</td>
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<tr>
<td>Hardness ASTM D-2240 Shore A</td>
<td>55 ±5</td>
</tr>
<tr>
<td>Tensile Strength, ASTM D-412</td>
<td>800 ± 100 psi (5.52 ± 0.7 MPa)</td>
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<tr>
<td>Elongation, ASTM D-412</td>
<td>500 ± 50%</td>
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<tr>
<td>Tear, ASTM D-624</td>
<td>170 ± 25 pli (29.8± 4.4 kN/m)</td>
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<tr>
<td>Split Tear, ASTM D-470</td>
<td>60 ± 5 pli (10.5 ± 0.9 kN/m)</td>
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<tr>
<td>Viscosity, at 75°F (24°C)</td>
<td>6500 ± 3000 cps</td>
</tr>
<tr>
<td>Total Solids by Weight, ASTM D-2369</td>
<td>81 ± 2%</td>
</tr>
<tr>
<td>Total Solids by Volume, ASTM D-2697</td>
<td>71 ± 2%</td>
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<tr>
<td>Volatile Organic Compounds, ASTM D-2369-81</td>
<td>2.01 lbs/gall (240 gm/liter)</td>
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gallons/100 sqft [0.68-1.1 liters/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
Allow each coat to cure (depending on environmental conditions, humidity and temperature) a minimum of 6-8 hours with accelerator and 12-16 hours without accelerator. If more than 24 hours passes between coats, reprime the surfaces with Enviro-Grip™ EP#1, EP#2, or PUR#555.

B-Tuff® 302 NG is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extend the cure time.

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

2.05 SHELF LIFE AND STORAGE
B-Tuff® 302 NG has a shelf life of six (6) months from date of manufacture when stored indoors at a temperature between 60°F to 95°F (15°C-35°C) in original, factory-sealed container.

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® 302 NG should be used as a base membrane only. Topcoat must be applied.
• B-Tuff® 302 NG cannot withstand direct wear and abrasion.
• Do not dilute under any circumstance.

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 browning, 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 solvents.