

# HYDRO TUFF URETHANE



## HYDROTHANE SERIES

### PRODUCT DATA SHEET

PRODUCT OVERVIEW	BENEFITS
Hydro Tuff is a 2K waterborne polyurethane coating that offers excellent durability and outstanding coverage.	Hydro Tuff offers superior durability to a variety of substrates. With excellent resistance to UV, chemicals, and abrasion, it is a reliable outdoor coating for high wear applications.
FEATURES	SURFACE PREPARATION
<ul style="list-style-type: none"><li>• Excellent exterior durability</li><li>• Excellent hardness</li><li>• Excellent impact resistance</li><li>• Excellent mar and abrasion resistance</li><li>• Excellent linear flexibility</li><li>• Low VOC</li></ul>	<p><b>Wood:</b> Apply an appropriate primer according to the manufacturer's instructions, contact Blue River Coatings for compatibility. Once the primer is dried, sand with a fine grain sandpaper until smooth. Apply Hydro Flex to the debris-free surface.</p> <p><b>Metal:</b> Apply an appropriate primer according to the manufacturer's instructions, contact Blue River Coatings for compatibility. Clean the surface with a mild detergent, rinse with distilled water, and dry.</p> <p><b>Vinyl:</b> Abrade the surface with a maroon Scotch Brite pad, remove any debris from the surface, wipe with an acetone-soaked clean towel. Let the acetone flash from the surface before applying the coating.</p>
FINISH	<p><b>Fiberglass:</b> Similar to Vinyl. Flame treatment or application of Interlux 216 may be required to improve adhesion.</p> <p><b>Concrete:</b> Sweep the area to be coated, scrub the area with water and a push broom, and use a concrete cleaner to remove oil and grease. Rinse the area with water and apply an etching additive.</p>
Available in: <ul style="list-style-type: none"><li>• Satin</li><li>• Semi-Gloss</li><li>• Gloss</li></ul> Color: Any	COATING PREPARATION
SPREAD RATE	Mix Part A, scraping the sides and bottom of the container, thoroughly before measuring out the correct volume. With Part A measured out and constantly mixing, measure Part B and slowly pour into Part A. Part A and Part B must be thoroughly mixed before thinning the coating to the desired viscosity with water and applying to the substrate.
Theoretical Coverage: 802 sq.ft. per gallon @ 1 mil DFT Recommended Coverage: 534 sq.ft. per gallon @ 1.5 mil DFT	Tinted: 4 Parts A : 1 Part B by volume 1 Quart: 6.4 fl oz Part B to 25.6 fl oz Part A 1 Gallon: 25.6 fl oz Part B to 102.4 fl oz Part A
SUBSTRATES	Clear: 3 Parts A : 1 Part B by volume 1 Quart: 8.0 fl oz Part B to 24.0 fl oz Part A 1 Gallon: 32 fl oz Part B to 96 fl oz Part A
<ul style="list-style-type: none"><li>• Concrete</li><li>• Fiberglass</li><li>• Metal, primed</li><li>• Wood, primed</li><li>• Vinyl</li></ul>	
SPECIFICATIONS	
Binder Type: Urethane Volume Solids: 50 ± 2% *varies by color Weight Solids: 53 ± 2% *varies by color Weight per Gallon: 8.9 lb Flash Point: 320°F / 160°C VOC, Material: 40 g/L VOC, Coating: 72 g/L Shelf Life: 12 months, unopened Pot Life: 45 - 60 minutes *varies with temp and RH	

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PERFORMANCE DATA	APPLICATION METHODS												
<p>* At recommended DFT, on vinyl</p> <p>Direct Impact: &gt; 160 lb</p> <p>Abrasion Resistance (ASTM D968): 180 lb</p> <p>Chemical Resistance: Pass</p> <p>Dry Film Hardness: 2H</p> <p>Humidity (ASTM D2247): 4000 hrs</p> <p>Cold Crack Cycle: Pass</p> <p>Oven Aging: Pass</p> <p>QUV Accelerated Weathering: 1,000 hrs</p> <ul style="list-style-type: none"><li>4 hours UV @ 131°F / 55°C</li><li>4 hours condensation @ 104°F / 40°C</li><li>30 minute cooling/dry off cycle</li></ul>	<p>With the surface and coating properly prepared, follow the below recommendations.</p> <p>Add deionized water to reach the correct viscosity level. For best results, filter the coating through a fine mesh cone strainer.</p> <p>Temperature should be above 60°F and relative humidity should be above 20% at the time of application.</p> <p><b>Spraying:</b> Apply a tack coat followed by a medium wet coat over the surface. Apply with an HVLP spray gun with tip size of 1.8-2.0 mm and air pressure of 25-40 psi. Nozzle size, air pressure, and viscosity are all important parameters for proper application, flow, and leveling of the coating.</p> <p><b>Brushing:</b> Spraying is recommended as it provides the best finish, but a foam brush can be used. Do not thin with water prior to brushing.</p>												
CERTIFICATIONS	DRY TIMES												
<p>AAMA 615-17    <i>Passed Dec 2017</i></p> <p>AAMA 625-10    <i>Passed Nov 2013</i></p>	<p><i>Hydro Tuff can be air dried or force cured.</i></p> <table><tr><td>Cure Conditions:</td><td>75°F/24°C</td><td>120°F/49°C</td></tr><tr><td></td><td>@ 50% RH</td><td>@ 50% RH</td></tr><tr><td>Recoat:</td><td>30 min</td><td>TBD</td></tr><tr><td>Dry to Handle:</td><td>1 - 2 hours</td><td>TBD</td></tr></table>	Cure Conditions:	75°F/24°C	120°F/49°C		@ 50% RH	@ 50% RH	Recoat:	30 min	TBD	Dry to Handle:	1 - 2 hours	TBD
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CLEAN-UP													
	<p>While coating is wet, water may be used for cleaning. After the coating dries, solvents may be required for clean up.</p>												
CLEANING COATED WINDOWS AND DOOR FRAMES													
<p>After the window has been coated, it should not be washed for two weeks to allow for complete curing of the coating. Once it has cured for two weeks, the coated vinyl surface may be cleaned with a mild soap* and water, using a lint-free rag or lint-free paper towel. Do not use solvent or abrasive materials, such as Scotch Brite pads. Clean the glass of the window with Windex or Ivory dish soap.</p> <p>To clean:</p> <ul style="list-style-type: none"><li>• Vacuum dirt from sill and track areas before washing</li><li>• Clean window and/or door frames with a mixture of mild soap and water</li><li>• <i>Abrasive or caustic cleaners or solvents are never recommended because they may cause permanent damage to the frame finish</i></li><li>• Mild, nonabrasive soaps are usually safest for most dirt and stain removal</li><li>• Always rinse completely with clean water and wipe or pat dry</li><li>• Check to make sure certain drainage or "weep" holes are always clear of dirt or obstruction both inside and outside the window or door</li></ul>													