

HYDRO FLEX URETHANE



HYDROTHANE SERIES H-3000

PRODUCT DATA SHEET

PRODUCT OVERVIEW	BENEFITS
Hydro Flex is a high performance 2K waterborne polyurethane coating for use on several substrates.	Hydro Flex provides outstanding coverage and excellent durability. Hydro Flex is easy to apply and offers low heat absorption properties for light and dark colors.
FEATURES	SURFACE PREPARATION
<ul style="list-style-type: none">• Excellent exterior durability• Good hardness & impact resistance• Excellent mar/abrasion resistance• Excellent linear flexibility• IR Reflective options available	<p>Wood: 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>Metal: 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>
FINISH	<p>Vinyl: 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>
SPREAD RATE	<p>PVC: Refer to surface preparation for Vinyl. Application of Interlux 216 may be required to improve adhesion.</p> <p>Fiberglass: Refer to surface preparation for Vinyl. Flame treatment or application of Interlux 216 may be required to improve adhesion.</p>
Theoretical Coverage: 625 sq.ft. per gallon @ 1 mil DFT Recommended Coverage: 521 sq.ft. per gallon @ 1.2 mil DFT	COATING PREPARATION
SUBSTRATES	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.
<ul style="list-style-type: none">• Vinyl• PVC• Fiberglass• Wood, primed• Metal, primed	Mix Ratio 10% Part B by volume: 1 Quart: 3.2 fl oz Part B to 28.8 fl oz Part A 1 Gallon: 12.8 fl oz Part B to 115.2 fl oz Part A
SPECIFICATIONS	APPLICATION METHODS
Binder Type: Polyurethane Volume Solids: 39 ± 2% * varies by color Weight Solids: 42 ± 2% * varies by color Weight per Gallon: 8.80 lb Flash Point: 175°F/79.4°C VOC, Material: 193 g/L VOC, Coating: 348 g/L Shelf Life: 12 months, unopened Pot Life (mixed): 12 hours	<p><i>With the surface and coating properly prepared, follow the below recommendations.</i></p> <p>Add deionized water to reach the correct viscosity level (Blue River Coatings recommends 18 - 22 seconds on a Zahn #3). For better results, filter the coating through a fine mesh cone strainer. The temperature should be above 60°F and relative humidity should be above 20% at the time of application.</p> <p>Spraying: 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 important parameters for proper application, flow, and leveling of the coating.</p>

HYDRO FLEX URETHANE



HYDROTHANE SERIES H-3000

PRODUCT DATA SHEET

PERFORMANCE DATA	DRY TIMES															
<p><i>Recommended DFT is 1.2-1.5 mil, unless otherwise stated</i></p> <p>Taber Abrasion (ASTM D4060): <100mg loss in 1,000 cycles</p> <p>Solvent Resistance (ASTM D5402): Pass 50 double rubs acetone gasoline, lacquer thinner, MEK</p> <p>Flexibility (ASTM D522): Good</p> <p>Pencil Hardness: HB</p>	<p><i>Hydro Flex can be air dried or force cured.</i></p> <p><i>Warning: adhesion failure can occur if temperature drops below 50°F</i></p> <p><i>Relative Humidity above 50% can greatly increase cure time.</i></p> <table border="1"><tr><td>Cure Conditions:</td><td>75°F/24°C @ 50% RH</td><td>100°F/38°C @ 50% RH</td><td>120°F/49°C w/convection</td><td>IR 120°F/49°C w/convection</td></tr><tr><td>Flash:</td><td>20 min</td><td>15 min</td><td>5 min</td><td>5 min</td></tr><tr><td>80% Cure:</td><td>48 hrs</td><td>12 hrs</td><td>45 min</td><td>20 min</td></tr></table>	Cure Conditions:	75°F/24°C @ 50% RH	100°F/38°C @ 50% RH	120°F/49°C w/convection	IR 120°F/49°C w/convection	Flash:	20 min	15 min	5 min	5 min	80% Cure:	48 hrs	12 hrs	45 min	20 min
Cure Conditions:	75°F/24°C @ 50% RH	100°F/38°C @ 50% RH	120°F/49°C w/convection	IR 120°F/49°C w/convection												
Flash:	20 min	15 min	5 min	5 min												
80% Cure:	48 hrs	12 hrs	45 min	20 min												
	CLEAN-UP															
	<p>While coating is wet, water may be used for cleaning. After the coating dries, solvents (recommend some) may be required for clean up.</p>															
	CERTIFICATIONS															
	<p>AAMA 615-20 <i>Passed September 2020</i></p>															
NOTES ON 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">• Vacuum dirt from sill and track areas before washing• Clean window and/or door frames with a mixture of mild soap and water• <i>Abrasive or caustic cleaners or solvents are never recommended because they may cause permanent damage to the frame finish</i>• Mild, nonabrasive soaps are usually safest for most dirt and stain removal• Always rinse completely with clean water and wipe or pat dry• Check to make sure certain drainage or "weep" holes are always clear of dirt or obstruction both inside and outside the window or door																