



**SHERWIN  
WILLIAMS.**

# Hi-Build Aliphatic Polyurethane

Description	System Recommendation
<p>Hi-Build Aliphatic Polyurethane is an isocyanate /acrylic coating designed for high performance, which provides excellent exterior gloss and color retention. The exterior appearance is retained over a wide range of chemical, weather and mechanical conditions.</p>	<p><b>On Steel/Metal Substrates:</b></p> <p>Epoxy Primer ZP 1 Coat 50 Microns DFT  <b>Hi-Build Aliphatic Polyurethane 2 Coats 50 Microns DFT</b></p> <p><b>On External Concrete Floors :</b></p> <p>Kem Epoxy Primer/Sealer 1 Coat 50 Microns DFT  <b>Hi-Build Aliphatic Polyurethane 2 Coats 50 Microns DFT</b></p> <p><b>On Wooden Substrates :</b></p> <p><b>Hi-Build Aliphatic Polyurethane 2 Coats 50 Microns DFT</b></p> <p><b>On External Concrete &amp; Plaster texture system :</b></p> <p>Kem Epoxy Primer/Sealer 1 Coat 50 Microns DFT            One Coat SherLast Acrylic Texture H.B. by Hopper Gun or Roller  <b>Hi-Build Aliphatic Polyurethane 2 Coats 50 Microns DFT</b></p> <p><b>Drying Time:</b>            Typically at recommended film thickness , drying time is generally depend on good ventilation.</p>
Characteristics	
<p><b>Colour</b> As per color card</p> <p><b>Finish</b> Gloss</p> <p><b>Solid contents (% by volume)</b> 52 ± 2 %</p> <p><b>Specific Gravity</b> 1.05- 1.20</p> <p><b>Recommended dry Film Thickness</b> 50 microns</p> <p><b>Theoretical Coverage:</b> 10.4 m<sup>2</sup>/ltr</p> <p><b>Flash Point:</b> 40°C</p> <p><b>Mixing Ratio by volume : 6 Parts Comp A and 1 Part Comp B</b></p> <p><b>Properties tested as per international Standards</b></p> <p><b>Viscosity</b> ASTM D 4287</p> <p><b>Specific Gravity</b> ASTM D 1475</p> <p><b>Gloss</b> ASTM D 523</p>	
Packing Size	Storage & Handling
<p>1 USG and 5 USG. Packing may vary from country to country according to local requirements. Also available in bases for instant color mixing at point of sale through Sherwin Williams automatic dispensing system</p>	<p>Product must be stored in accordance to national regulations. The product should be kept in well ventilated place protected from heat and direct sunlight. The containers must be kept tightly closed.</p>

Substrate Temp	Dry to Touch	Dry to Handle	Re-coating Interval	
			Minimum	Maximum
23° C	2.5 hr	24 hr	10 hr	
35° C	2 hr	20 hr	8 hr	



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Safety Precautions	Application Procedures								
<p>Material health and safety data sheet is available upon request. Please observe the precautionary notice displayed on the container. Ensure proper ventilation during application and drying of paint. Avoid inhalation of paint mist and vapors and skin contact. Spillage of paint on skin should immediately be removed with suitable cleanser soap and water. Eyes should be well flushed with water and immediate medical attention should be sought.</p>	<p><b><u>Surface Preparation:</u></b> <b>Concrete &amp; Wooden Floors:</b> All surfaces must be fully cured. Roughen the surface by sand blasting, shot blasting, mechanical scarification or suitable chemical means. Patch holes, cracks with an appropriate filler. The surface should be made free from moisture if any before application of the paint. Test the surface for moisture-free.</p> <p><b><u>Application Conditions:</u></b> Minimum temperature at 15° C and relative humidity 20 - 85%.</p> <p><b><u>Application Details:</u></b></p> <table><tr><td>Application method</td><td>By airless , Brush or roller</td></tr><tr><td>Thinning</td><td>Urethane Reducer YTF – K138</td></tr></table> <p>Paint is ready to use Recommended thinning For brush/ roller / Airless max. 5 to 10 %</p> <p><b><u>Guiding data for airless spray:</u></b></p> <table><tr><td>Nozzle orifice</td><td>.015 " - .019 "</td></tr><tr><td>Nozzle Pressure</td><td>150 BARS / 2100 psi</td></tr></table>	Application method	By airless , Brush or roller	Thinning	Urethane Reducer YTF – K138	Nozzle orifice	.015 " - .019 "	Nozzle Pressure	150 BARS / 2100 psi
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<p><b>Recommended Uses</b></p> <p>For use over prepared substrates such as steel and masonry in industrial environments and maintenance areas. Suitable for Direct To Metal application, heavy duty flooring, portable water storage, immersion services and parking areas.</p>	<p><b>Environmental Compliance</b></p> <p><b>Lead Free Paint</b></p>								