

# Polyseal WB Polyurethane

## Technical Specifications

### Product Description

PolySeal WB is a high-solids, two-part, low viscosity, water-based aliphatic polyurethane. It is designed for use as a high performance clear coating for all types of concrete and polymer modified concrete overlays. PolySeal WB is UV stable, non-yellowing and provides performance properties equal to solvent-based urethanes without the health, environmental and odor issues. It provides a hard and durable coating that provides easy cleaning and superior abrasion resistance for interior and exterior surfaces. PolySeal WB is an excellent choice for high traffic concrete flooring, concrete counter tops, decorative concrete overlays, and concrete that requires excellent chemical resistance. It is available in high gloss and low gloss (matte).

### Technical Specifications

Color	Liquid clear to slightly milky
Odor	Mild
Mix Ratio	4 : 1 Part A (resin) to Part B (catalyst)
Solids Content (by wt.)	High gloss = 60% Low Gloss =50%
Density	Approx. 9 pounds per gallon when mixed
Flash Point	200 °F (93.3 °C)
Viscosity	50-100 cps.
Exterior Durability	Excellent
Water Resistance	Excellent
Chemical Resistance	Excellent

### Property Comparison

Pendulum Hardness Development @23 °C/50% RH

	Gloss	Low Gloss (matte)
1 Day	37.3 seconds	37.8 seconds
5 Day	173.1 seconds	154 seconds
7 Day	183.9 seconds	162 seconds

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	Gloss	Low Gloss (matte)
Approx. Pot life at 23 °C	4 – 6 hours	2 hours
Approx. Dry Time @23 °C/50% RH	4 – 6 hours	2 to 4 hours
VOC g/l	< 10	< 10
60 Degree Gloss	90	< 10
Tg (C)	70	81.5

Chemical Resistance

System		Gloss	Low Gloss (matte)
<b>Chemical Resistance Test, Covered ASTM D 1308</b>			
<b>10% acetic acid</b>	4 hrs 24 hrs	No Effect No Effect	No Effect No Effect
<b>10% H2SO4</b>	4 hrs 24 hrs	No Effect No Effect	No Effect No Effect
<b>10% HCL</b>	4 hrs 24 hrs	No Effect No Effect	No Effect No Effect
<b>14% NH4OH</b>	4 hrs 24 hrs	No Effect No Effect	No Effect No Effect
<b>50% NaOH</b>	4 hrs 24 hrs	No Effect No Effect	No Effect No Effect
<b>IPA</b>	4 hrs 24 hrs	No Effect Slightly Soft	No Effect Slightly Soft
<b>MEK</b>	4 hrs 24 hrs	Slightly Soft Soft	Slightly Soft Soft
<b>DI Water</b>	4 hrs 24 hrs	No Effect No Effect	No Effect No Effect
<b>Betadine</b>	4 hrs 24 hrs	No Effect No Effect	No Effect No Effect
<b>10% Bleach</b>	4 hrs 24 hrs	No Effect No Effect	No Effect No Effect
<b>Gasoline</b>	4 hrs 24 hrs	No Effect No Effect	No Effect No Effect

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<b>Chemical Immersion Test ASTM D 1308</b>			
<b>Skydrol</b>	1 day	No Effect	No Effect
	5 days	No Effect	No Effect
	7 days	No Effect	No Effect
<b>Brake Fluid @ 50C</b>	1 day	No Effect	No Effect
	5 days	No Effect	No Effect
	7 days	No Effect	No Effect

Please reference the safety data sheet for additional product handling and safety information. Consult the product technical data sheets for application guidelines. Disclaimer: Information presented in this product technical specification sheet is believed to be true and accurate and is generated and obtained from independent testing in conjunction with reliable and accurate sources. Information is provided only as a guide. Since ChemSystems has no direct control over the transport storage or application of this product, no guarantee of accuracy, completeness, fit-for-use, or ultimate performance of this product are given or implied.

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