

# POLYSILOXANE HP

## General Properties

The POLYSILOXANE HP line of formulated organic/inorganic hybrid coatings produce high performance isocyanate free coating systems that are VOC compliant at less than or equal to 100 grams/litre, (0.83 lbs/US gal.) level. All of the coatings formulated with this system are HAP's free, and lead & chrome free.

## Recommended Uses

For application to commercial transportation, aircraft, farm machinery, oilfield drilling and service equipment, industrial & process equipment, exteriors of storage tanks and structural steel. POLYSILOXANE HP systems are also used as chemical resistant, gloss retentive finishes over intermediate epoxy and zinc rich primer systems. Available in a complete range of colours.

## Product Information

<b>GENERIC TYPE</b>	Two component Polysiloxane
<b>PIGMENT TYPE</b>	Lead-free, Colourfast Pigments
<b>COLOR</b>	Available in a complete range of colours .
<b>BASES</b>	83170A White, and a complete range of colours.
<b>FINISH</b>	High Gloss
<b>AVERAGE VOLUME SOLIDS</b>	86.5%
<b>AVERAGE WEIGHT SOLIDS</b>	91.5% (Mixed)
<b>RECOMMENDED FILM THICKNESS</b>	Wet: 4 - 5 mils Dry: 3 - 5 mils See your Cloverdale Representative for project recommendations.
<b>THEORETICAL COVERAGE</b>	@1mil, 1,387.5 sq. feet / gal (34 sq.metres/L) Actual coverage may vary depending on substrate and application methods.

<b>MIXED RATIO</b>	5:1 (8317 Series A : part 83170B)
<b>INDUCTION TIME</b>	No Induction required
<b>POT LIFE @ 25°C (77°F)</b>	8 hours (less at higher temperatures)
<b>VISCOSITY MIXED</b>	70 - 80 KU
<b>TEMPERATURE RESISTANCE (DRY)</b>	93°C (200°F) Continuous 120°C (250°F) Intermittent
<b>V.O.C. MIXED</b>	Less than 100 g/L - (0.83 lbs/gal)
<b>SHELF LIFE</b>	2 Years
<b>THINNER</b>	C-760- 2 Thinner Med. Evap. (HAPS-free)
<b>ACCELERATOR</b>	N/A

## Methods of Application

<b>AIRLESS SPRAY</b>	1600 - 2000 psi fluid pressure with tip sizes .013" - .015"
<b>H.V.L.P.</b>	1000 - 1500 psi fluid pressure, 60 - 70 psi atomizing air, Tip size .013 - .019"
<b>CONVENTIONAL</b>	10 - 20 psi pot pressure , 45 - 65 psi atomizing air , Nozzle set 1.4 - 1.8
<b>AIR ASSIST AIRLESS</b>	800 - 1200 psi fluid pressure, 40 - 70 atomizing pressure, .013" - .015" tip size.

**Drying Time** - Temperature, Relative Humidity, and Film Thickness will affect dry and re-coat times.

Substrate Temperature	Touch Dry	Hard Dry	Overcoat Interval		Tape Time
			Minimum	Maximum	
25°C (77°F)	4 hours	8 hours	2 hours.	3 days	12 hours

## 8317 Series

### Recommended Primer

<b>STEEL</b>	83021 Clovaprime 21, 8385 Series DuraPrime, Clovazinc 2, Clovazinc 3, Clovazinc 7.
<b>CONCRETE</b>	83021 ClovaPrime 21
<b>GALVANIZED (Non Passivated)</b>	83021 ClovaPrime 21
<b>ALUMINUM</b>	83021 ClovaPrime 21, 71007 ClovaBond

### Surface Preparation

Surfaces must be clean, dry and free of contamination such as was, oils, grease, dirt, mill scale or rust. Round off all welds and sharp edges. Use an approved degreaser and phosphating system to clean, or use a Dry-abrasive blast (SSPC-SP-10 Near-White Metal Blast is recommended). Prime ferrous and non-ferrous metals with recommended Cloverdale primer. Epoxy primers must be overcoated with the maximum overcoat window or mechanically abraded to provide intercoat adhesion. Fastest tape times can be achieved using 3M automotive Refinish Masking Tape.

### Typical Resistance (Non-Immersion)

<b>WEATHER</b>	EXCELLENT	<b>SALT WATER</b>	EXCELLENT	<b>ACIDS</b>	VERY GOOD
<b>MOISTURE</b>	EXCELLENT	<b>FRESH WATER</b>	EXCELLENT	<b>ALKALIS</b>	VERY GOOD
<b>SOLVENTS</b>	VERY GOOD	<b>ABRASION</b>	EXCELLENT	<b>OIL</b>	VERY GOOD

### Limitations

After POLYSILOXANE HP has cured for more than 3 days, the surface will require sanding for adhesion purposes for subsequent coats. For best results apply when the substrate temperature is above 10°C (50°F), and at a minimum of 3°C (5°F) above the dew point. Do not paint when the relative humidity is above 80% or is expected to go over 80% during the painting period. Use a moisture trap to ensure that only dry air is used.

### Mixing Instructions

Mix base A and curing agent B separately with good agitation. Add converter or curing agent B to base component and mix thoroughly until homogenous. Carefully maintain water traps in all air lines. Humid conditions can lead to condensation during the curing cycle, resulting in loss of gloss. Reduce as necessary using only Cloverdale recommended thinner.

### Safety Precautions

This product is for industrial use only. Refer to Material Safety Data Sheet for proper health and safety information.

### Storage and Handling

<b>FLASH POINT</b>	-10 C. (T.C.C.)
<b>PRODUCT WEIGHT</b>	1.39 Kg/Lt (container extra)
<b>STORAGE</b>	Store at ambient room temperature.
<b>PACKAGE SIZE</b>	1 gallon kit: 3.12 L 8317 Series A; 0.66 L 83170B 5 gallon kit: 15.63 L 8317 Series A; 3.29 L 83170B

Some package sizes or colors may be by special order only. Please check with your Cloverdale Representative when ordering.

### Warranty Disclaimer

Cloverdale Paint manufactures quality products. In the event that this product is defective or in any way unsuitable for the application for which it is sold, Cloverdale Paint Inc. will replace the product free of charge. The warranty provided by this data sheet is the only warranty or guarantee of quality made in respect of this product by Cloverdale Paint Inc. By purchasing this product the customer accepts this warranty in lieu of all others, and waives all claims to any other remedy arising from any warranty or guarantee of quality, whether such warranty or guarantee of quality was made expressly to the customer or implied by any applicable law.



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