

# TECHNICAL DATA SHEET

**TUL005613**
**PREMIUM PIGMENTED POLYURETHANE PRIMER**

Custom Blends: T56XX Series

White Primer..... TUL005613

Color:	White														
Area of use:	Interior wood products such as residential furniture, cabinetry, architectural woodworking														
Method of use:	Conventional, Airless, Air Assisted Airless, HVLP														
Mixing procedure:	<table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: right;">By volume</td> </tr> <tr> <td style="text-align: right;">Part A</td> <td>TUL005613</td> <td style="text-align: right;">4 parts</td> </tr> <tr> <td style="text-align: right;">Part B (hardener)</td> <td>THL079100</td> <td style="text-align: right;">1 part</td> </tr> <tr> <td style="text-align: right;">Thinner (optional)</td> <td>Butyl Acetate (R6K18)</td> <td style="text-align: right;">20% max.</td> </tr> <tr> <td style="text-align: right;">Retarder (optional)</td> <td>MAK (R6K30)</td> <td style="text-align: right;">5% max.</td> </tr> </table>		By volume	Part A	TUL005613	4 parts	Part B (hardener)	THL079100	1 part	Thinner (optional)	Butyl Acetate (R6K18)	20% max.	Retarder (optional)	MAK (R6K30)	5% max.
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Clean up:	MAK (R6K30) or HAPS Compliant Lacquer Thinner (R7K320)														

## Technical characteristics

Theoretical solids as packaged:	Wt. Solids: 51%    Vol. Solids: 32%										
Theoretical solids as applied (catalyzed, no reduction):	Wt. Solids: 48%    Vol. Solids: 31%										
Viscosity as packaged (Zahn #2 at 77°F):	47 secs.										
Viscosity as applied (Zahn #2 at 77°F):	30-37 secs., no reduction										
Recommended wet film thickness per coat:	3.0 - 4.0 mils										
Recommended dry film thickness per coat:	1.0 – 1.25 mils										
Total system dry film thickness (includes topcoat) :	4.0 - 6.0 mils dry (Do not exceed 6.0 mils dry)										
Spread rate (catalyzed) :	500 sq. ft/gal @ 1.0 mil dft, no loss										
Drying time (at 77°F / 50% RH):	<table border="0" style="width: 100%;"> <tr> <td>Touch dry</td> <td>15-20 minutes</td> </tr> <tr> <td>Handle</td> <td>30 minutes</td> </tr> <tr> <td>Sand</td> <td>30 minutes</td> </tr> <tr> <td>Topcoat</td> <td>40 minutes</td> </tr> <tr> <td>Pack</td> <td>24 hours</td> </tr> </table>	Touch dry	15-20 minutes	Handle	30 minutes	Sand	30 minutes	Topcoat	40 minutes	Pack	24 hours
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Pot-life:	3 hours @ 77° F										
Shelf-life:	24 months, unopened After long periods of storage, always check homogeneity and stir well before use to eliminate any possible sediment.										
Theoretical VOC as packaged:	4.83 lb/gal, 579 g/L (less exempt solvents)										
Theoretical VOC as applied (catalyzed, no reduction):	4.87 lb/gal, 583 g/L (less exempt solvents)										
VHAPS (catalyzed, no reduction):	No reportable VHAPS										
Flash Point (as packaged):	24°F PMCC										
<b>An Environmental Data Sheet is available from your local servicing facility, or at <a href="http://www.paintdocs.com">www.paintdocs.com</a>.</b>											

# TECHNICAL DATA SHEET

**TUL005613**

**PREMIUM PIGMENTED POLYURETHANE PRIMER**

## **General characteristics:**

Sayerlack® Premium Pigmented Polyurethane Primer is a high solids two component acrylic polyurethane primer recommended for the general interior wood finishing market for use under the Premium Pigmented Polyurethane Topcoat. This primer has an easy to use mixing ratio and a common catalyst used in the topcoat and is ready to spray after catalyzation. TUL005613 builds well and has good sandability providing a smooth foundation for top coating. This primer and topcoat system is ideal for a wide range of interior wood products such as Kitchen Cabinets, Household and Office Furniture, Displays, Fixtures, Vanities and Novelties. This primer is formulated without any formaldehyde containing resins.

## **Tinting:**

This sealer can be tinted with Phoenix® colorants up to 6 oz. /gallon.

## **Catalyzing**

This coating requires catalyzation at a 4:1 (4 parts paint : 1 part THL0791) ratio before use. Once catalyzed, the material has a 3 hour working pot-life. Higher temperatures will reduce pot life. Maximum cure and chemical resistance is attained after 14 days. This product is ready to spray after catalyzation, but may require reduction to optimize the application in some environments.

## **Substrate preparation**

**Wood – New Work** (interior only): Must be clean, dry and finish sanded. Substrate should be free of grease, oil, dirt, fingerprints and any contamination. Moisture content of wood should be 6-8%.

**Previously finished wood** (interior only): Strip old finishes completely and remove all contaminants from the surface. Make sure surface is dry. Finish as new work.

## **Wood Finishing System:**

1. Apply one full coat of Sayerlack® Premium Pigmented Polyurethane Primer (TUL005613 catalyzed) at 3-4 mils wet. Air dry for at least 30 minutes.
2. Sand primer coat with 320 grit sand paper, remove sanding dust or debris.
3. Apply a full wet coat of Sayerlack® Premium Pigmented Polyurethane Topcoat (TZL14 series) at 3-4 mils wet. Air dry for at least 40 minutes. Sand with 320 grit sand paper, remove sanding dust or debris.
4. Apply second full wet coat topcoat at 3-4 mils wet. Air dry for at least 40 minutes. For additional depth or build, apply an additional coat.

Do not use glazing materials that contain linseed oil.

## **Note:**

**To achieve optimal performance properties a minimum of 4.0 mils dry for the total system is required. Total film thickness of system (including primer) must not exceed 6.0 mils because heavier films may cause cracking and checking.**

**Testing:** The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.

# TECHNICAL DATA SHEET

TUL005613

PREMIUM PIGMENTED POLYURETHANE PRIMER

Application Equipment Settings			
Conventional		Air Assisted Airless	
Air Pressure:	45 – 55 psi	Air Pressure:	15-20 psi
Fluid Pressure:	8 - 10 psi	Fluid Pressure:	500 – 800 psi
Cap/Tip Size:	.042 - .055	Cap/Tip Size:	.009 - .013
Airless		HVLP	
Pressure:	1000 - 2000 psi	Air Pressure @ Cap:	9 psi
Tip Size:	.009 - .015	Fluid Pressure:	6-8 psi
		Cap/Tip Size:	.042 - .055

The recommended applied viscosity is 28-32 seconds on a #2 Zahn cup @ 77° F.

For airless and air assisted airless application, box coating technique may be required to achieve desired appearance.

## FOR INDUSTRIAL SHOP APPLICATION ONLY

Thoroughly review product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product. To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or [www.paintdocs.com](http://www.paintdocs.com).

Please direct any questions or comments to your local Sherwin-Williams facility.

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