

TECHNICAL DATA SHEET

TZL71 Series**
PREMIUM POLYURETHANE CLEAR TOPCOAT

TZL7105 (5 gloss)
 TZL7120 (20 gloss)
 TZL7135 (35 gloss)
 TZL7185 (85+ gloss)

Gloss level:	5, 20, 35, 85+												
Area of use:	Interior Wood - Cabinets, furniture, wood trim												
Method of use:	Conventional, Airless, Air Assisted Airless, HVLP												
Mixing procedure:	<table> <tr> <td></td><td>By volume</td></tr> <tr> <td>Part A</td><td>TZL71 Series</td></tr> <tr> <td>Part B (hardener)</td><td>THL079100</td></tr> <tr> <td>Thinner</td><td>Butyl Acetate (R6K18)</td></tr> <tr> <td>Retarders</td><td>MAK (R6K30)</td></tr> <tr> <td></td><td>EEP (R6K35)</td></tr> </table>		By volume	Part A	TZL71 Series	Part B (hardener)	THL079100	Thinner	Butyl Acetate (R6K18)	Retarders	MAK (R6K30)		EEP (R6K35)
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Technical characteristics

Solids content (%) as packaged:	Weight Solids: 40-50 / Volume Solids: 34-42								
Viscosity (5 gloss at 77°F):	20-25 seconds Zahn #3								
Viscosity (20,35,85+ gloss at 77°F):	22-25 seconds Zahn #2								
Catalyzed viscosity, no reduction (at 77°F):	17-19 seconds on Zahn Cup #2								
Pot-life:	3 hours								
Recommended wet film thickness:	4.0 – 6.0 mils								
Recommended total system dry film thickness:	4.0 mils dft minimum 6.0 mils dft maximum (Includes sealer)								
Spread rate:	625 average sq. ft./gal @ 1.0 mils DFT, No loss								
Drying time(at 77°F):	<table> <tr> <td>To Touch</td><td>30-40 minutes</td></tr> <tr> <td>To Handle</td><td>45-50 minutes</td></tr> <tr> <td>To Sand</td><td>50-60 minutes</td></tr> <tr> <td>To Pack</td><td>Overnight</td></tr> </table>	To Touch	30-40 minutes	To Handle	45-50 minutes	To Sand	50-60 minutes	To Pack	Overnight
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Forced drying:	<table> <tr> <td>Flash off</td><td>30 minutes</td></tr> <tr> <td>Hot air at 120-140°F</td><td>20 minutes</td></tr> </table>	Flash off	30 minutes	Hot air at 120-140°F	20 minutes				
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VOC (Theoretical as packaged, maximum):	4.71 lb./gal, 564 g/L (less exempt solvents)								
VOC (Catalyzed, no reduction):	4.81 lb./gal, 577 g/L (less exempt solvents)								
VHAPS (Catalyzed):	No reportable VHAPS								
Shelf-life:	Part A: 12 months, unopened. Part B: 12 months, unopened. After long periods of storage, always check homogeneity and stir well before use to eliminate any possible sediment.								

General characteristics

TZL71 Series Premium Polyurethane Clear Topcoat is high performance 2K solvent based acrylic polyurethane top coat for the general interior wood finishing market. This premium finishing system has the perfect balance of fast dry times and vertical hang along with excellent flow and leveling characteristics. When properly applied over Sayerlack® TUL0056 or TUL0075 sealers, this finishing system meets KCMA test requirements for finishes providing a finishing system that has excellent chemical and moisture resistance along with improved scratch resistance with excellent system clarity. Premium Polyurethane Topcoat has added UV absorber to minimize yellowing of the finish over time. Premium Polyurethane Clear Topcoat catalyzes at a 2:1 ratio and has a 3 hour working pot-life.

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Tinting:

TZL71 Series Premium Polyurethane can be tinted with Phoenix® colorants up to 4 oz. /gallon.

OptiColor® XP, GIS or Chroma-Chem® 844 colorants can be used up to 4 oz. per gallon. **For colors or formulas requiring Burnt Umber (844-1352), please contact your local representative for formulation consultation.**

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.

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.

Application Equipment Settings			
Conventional		Air Assisted Airless	
Air Pressure:	40 – 50 psi	Air Pressure:	15 - 25 psi
Fluid Pressure:	8 - 10 psi	Fluid Pressure:	750 – 1000 psi
Cap/Tip Size:	.047 - .055	Cap/Tip Size:	.009 - .011
Airless		HVLP	
Pressure:	1500 - 1800 psi	Air Pressure @ Cap:	8-10 psi
Tip Size:	.011 - .013	Fluid Pressure:	6-8 psi
		Cap/Tip Size:	.047 - .055

The recommended applied viscosity is 17-19 seconds on a #2 Zahn cup @ 77° F. For airless and air assisted airless application, fine finish tips are recommended. Box coating technique may be required to achieve desired appearance. Further reduction may improve application and appearance depending on specific spray shop conditions.

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. Please direct any questions or comments to your local Sherwin-Williams facility or 1-877-705-2681.

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