



**BERNYL™ RELIANT CLEAR  
POST-CATALYZED TOPCOAT  
DM53420XX (10,15,25,30,40,50,60,90 Gloss)**

**DESCRIPTION:**

Bernyl™ Reliant Clear Post-Catalyzed Topcoat is a two component, acid cure clear coating with exceptionally fast drying properties for interior woodwork. This product sands easily and can be stacked quickly. It provides excellent flow and leveling, and is HAPS free. Bernyl™ Reliant Clear Post-Catalyzed Topcoat meets KCMA/CKCA standards and has good sag resistance. This topcoat is self-sealing and provides excellent chemical resistance.

**PRODUCT DATA:**

<b>Color:</b>	<b>Wet:</b> Clear <b>Dry:</b> Clear	<b>VOC (as packaged, maximum, less water and exempt solvents):</b>	5.26 lbs/gal or 630 g/l
<b>Solids % by Vol.:</b>	26 % (Theoretical)	<b>VOC (emitted):</b>	5.26 lbs/gal or 630 g/l
<b>Solids % by Wt.:</b>	33 % (Theoretical)	<b>Lbs. VHAPs / Lbs. Solids:</b>	0.0 before catalyzed
<b>Weight / Gal.:</b>	7.80 lb	<b>Flash Point (PMCC):</b>	11° C / 52° F
<b>Viscosity 23°C / 73°F:</b>	<b>#4 Ford:</b> 32-34 Sec.	<b>Photo Chemically Reactive:</b>	No
<b>Viscosity 23°C / 73°F:</b>	<b>DIN 4:</b> 24-26 Sec.	<b>Shelf Life:</b>	1 year (at 15-25° C / 59°-77° F)
<b>Viscosity 23°C / 73°F:</b>	<b>Zahn #2 sig.:</b> 24-27 Sec.	<b>Theo. Coverage@1mil dry</b>	420 Sq. Ft./Gal. 100% Efficiency

**MIXING / APPLICATION:**

**Working Temp:** >18° C, 65° F substrate, coating and air  
**Catalyzation:** 7% by volume using either Catalyst 2750 (standard), Catalyst 494 (slow), or Catalyst 309 (HAPS free, fast).  
**Pot Life:** 8 hrs. (23° C / 74° F)  
**Mixing:** Mix thoroughly to ensure uniform consistency. Add Catalyst under agitation then add solvent to adjust viscosity if necessary.  
**Sealer:** Can be used as a self-sealed system or over Care Seal™ or Care Seal™ HS Post Catalyzed Sealers.  
**Reducer:** Thinner 219 (Regular), Thinner OC 140 (Fast), Thinner 309 (Fast, HAPS free), Thinner 419 (Slow, HAPS free)  
**Application:** 75 - 100 (g/m²) Approx.3- 4 wet mils  
**Surface Prep:** Substrate should be clean and free of grease and oil. Moisture content of the wood should be between 6%-8%. White wood sand with 180 grit sandpaper. Sand the first coat (with 280 to 320 paper) to eliminate grain raising and improve adhesion of the subsequent coat. Topcoat within 8 hours of sanding.  
**Use Directions:** For interior use only. Mix thoroughly before application. Stack only when the surface temperature is below 35°C / 95 ° F. Dry time can be directly impacted by many factors, including film thickness. Users are urged to test the system under shop conditions.  
**App. Equip.:** Conventional & HVLP Siphon Feed and Pressure Pot Systems and Airless Air Assist Equipment.  
**Ind. Standards:** This product meets the quality standard System 5 - Conversion Varnish Transparent for AWI. It also meets KCMA and CKCA standards.

**DRYING TIMES TO SAND / STACK:**

Method	Drying Temp.	Drying Time (@ 60 % RH and thickness @ 1 mil dry)
<b>Air Drying</b>	20° C / 68° F	30-40 min. dry to <b>sand</b> / 2-3 hr. dry to <b>stack</b>
<b>*Forced Drying</b>	70° C / 158° F	10-15 min. dry to <b>sand</b> / 30-40 min. dry to <b>stack</b>

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**APPLICATION RECOMMENDATIONS:**

**APPLICATION EQUIPMENT SETTINGS**

Method of Application	Wet Film		Dry Film	
	Mils	/ g/m <sup>2</sup>	Mils	/ Microns
Conventional – Siphon Fed	3 – 4 mils	/ 75-100 g/m <sup>2</sup>	0.8-1.0 mils	/ 20.5-25 microns
Conventional – Pressure Pot	3 – 4 mils	/ 75-100 g/m <sup>2</sup>	0.8-1.0 mils	/ 20.5-25 microns
Airless Air Assist	3 – 4 mils	/ 75-100 g/m <sup>2</sup>	0.8-1.0 mils	/ 20.5-25 microns
HVLP - Siphon Fed	3 – 4 mils	/ 75-100 g/m <sup>2</sup>	0.8-1.0 mils	/ 20.5-25 microns
HVLP - Pressure Pot	3 – 4 mils	/ 75-100 g/m <sup>2</sup>	0.8-1.0 mils	/ 20.5-25 microns

All measurements recommended are based on results at a temperature of 68°F. Viscosity will vary depending on the temperature of the liquid. The above mentioned application equipment recommendations are guidelines only. The noted settings are starting point recommendations and that adjustment to the settings and equipment may be needed to obtain the desired results. Please refer to your specific equipment manufacturer's recommendations for equipment set up.

**REDUCTION – TIP SIZE – PSI SETTINGS**

**Conventional Equipment Siphon Feed:**

Reduce to 18-21 seconds #4 ford viscosity cup, nozzle size 0.070 inches (1.8mm) – 0.0 inches (2.0 mm), atomizing air 40 psi (2.8bar)–50 psi (3.5 bar).

**Conventional Equipment Pressure Pot:**

Reduce to 18-21 seconds #4 ford viscosity cup, nozzle size 0.472 inches (1.2mm) – 0.055 inches (1.4 mm), atomizing air 40 psi(2.8 bar)–50 psi (3.5 bar), Pot pressure 7 psi (0.48 bar) to 10 psi (0.68 bar).

**Airless Air Assist Equipment:**

Reduce to 18-25 seconds #4 ford viscosity cup, tip size .011 inches (0.28mm) - .013 inches (0.33mm), fluid pressure 290 psi (20 bar) – 580psi(40 bar), atomizing air 11psi (0.8 bar) to 17psi (1.2 bar).

**HVLP Equipment Siphon Feed:**

Reduce to 17-21 seconds #4 ford viscosity cup, .061inch (1.5mm) -.072inch ( 1.8MM) nozzle, atomizing air 35psi (2.4bar) -45 psi (3.1bar).

**HVLP Equipment Pressure Pot:**

Reduce to 17-21 seconds #4 ford viscosity cup, 0.472 inches (1.2mm) – 0.055 inches (1.4 mm) nozzle, atomizing air 20psi (1.37 bar) -25 psi (1.72 bar). Pot pressure 7 psi (0.48 bar) to 10 psi (0.68 bar).

**CONTACTS:**

PH: AcromaPro USA and Canada / 1-888-277-1448

[www.AcromaPro.com](http://www.AcromaPro.com)



**PRODUCT NOTES**

- To help reduce trapped air, blushing or orange peel, use Retarder 0987 at a maximum of 2% by volume.
- For better flow and leveling, use Thinner 419 at a maximum of 3% by volume.
- Do not catalyze in an unlined metal container.
- Contains Nitrocellulose – may amber under certain conditions.
- Maximum recommended dry film thickness for total coating system is 6 dry mils.
- This product meets KCMA and CKCA standards when used as a self-seal system or over a recommended AcromaPro sealer.
- Can be used over recommended AcromaPro water-based and solvent-based stain systems. Please contact your AcromaPro representative for system recommendations.

**TESTING:** Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.

**FOR INDUSTRIAL SHOP APPLICATION:** Thoroughly review Safety Data Sheet (SDS) for safety information and cautions prior to using this product. For Regulatory compliance data (i.e. VOC, HAPS, etc.), obtain an Environmental Data Sheet (EDS) prior to using the product. Regulatory documents are available from your local distributor or representative. Please direct any questions or comments to 1-800-524-5979.

**NOTE:** Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or under our control, AcromaPro cannot make any warranties as to the end result.