



**BERNYL™ INTRO CLEAR
PRECATALYZED TOPCOAT**
NM52020XX (10,15,25,40,60,70,90 Gloss)

DESCRIPTION:

Bernyl™ Intro Clear Precatalyzed Topcoat is a fast drying, precatalyzed clear coating for natural or stained interior woodwork. It can be applied as a self-sealed system or over recommended AcromaPro sealers. This precatalyzed finish has excellent sanding characteristics. Bernyl™ Intro Clear Precatalyzed Topcoat is pre-reduced for easy material handling at a ready to spray viscosity with little to no additional reduction required.

PRODUCT DATA:

Color:	Wet: Clear Dry: Clear	VOC (as packaged, maximum, less water and exempt solvents):	5.69 lbs/gal or 682 g/l
Solids % by Vol.:	19% (Theoretical)	VOC (emitted):	5.69 lbs/gal or 682 g/l
Solids % by Wt.:	26% (Theoretical)	Lbs. VHAPs / Lbs. Solids:	0.79 before catalyzed
Weight / Gal.:	7.68 lb	Flash Point (PMCC):	6° C / 43° F
Viscosity 23°C / 73°F:	#4 Ford: 28-32 Sec.	Photo Chemically Reactive:	Yes
Viscosity 23°C / 73°F:	DIN 4: 21-25 Sec.	Shelf Life:	6 months (at 15-25° C/ 59°-77° F)
Viscosity 23°C / 73°F:	Zahn #2 sig.: 30-37 Sec.	Theo. Coverage@1mil dry	305 Sq. Ft./Gal. 100% Efficiency

MIXING / APPLICATION:

Working Temp: >18° C, 65° F substrate, coating and air
Catalyst: N/A
Catalyzation: N/A
Pot Life: N/A
Mixing: Mix thoroughly to ensure uniform consistency.
Sealer: Apply as a self-sealed system, or over Care Seal™ Precatalyzed Clear Sealer, Vinyl Precatalyzed Clear Sealer or Mini Precatalyzed 192 Clear Sealer.
Reducer: Thinner 219 (Regular), Thinner OC 140 (Fast), Thinner 309 (HAPS Free), Thinner 419 (Slow, HAPS Free)
Application: 80-120 (g/m²) Approx. 5 wet mils Min 1 mil wet –Max 5 mil wet @ 60%RH
Surface Prep: Substrate should be clean and free of grease and oil. Moisture content of the wood should be between 6%-8%. White wood sanding with 150 grit for open pore wood, and 180 grit for closed pore. 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.
Tinting: Can be tinted with Chroma Chem 866 colorants to a maximum of 5% total colorant.
Ind. Standards: This product meets the Precatalyzed Lacquer Transparent quality standard 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)
Air Drying	20° C / 68° F	20-35 min. dry to sand / 2-3 hr. dry to stack
*Forced Drying	70° C / 158° F	5-10 min. dry to sand / 1 - 2 hr. dry to stack

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APPLICATION RECOMMENDATIONS:

APPLICATION EQUIPMENT SETTINGS

Method of Application	Wet Film		Dry Film	
	Mils	g/m ²	Mils	Microns
Conventional – Siphon Fed	3 – 5 mils	75-125 g/m ²	0.57-0.95 mils	15-24 microns
Conventional – Pressure Pot	3 – 5 mils	75-125 g/m ²	0.57-0.95 mils	15-24 microns
Airless Air Assist	3 – 5 mils	75-125 g/m ²	0.57-0.95 mils	15-24 microns
HVLP - Siphon Fed	3 – 5 mils	75-125 g/m ²	0.57-0.95 mils	15-24 microns
HVLP - Pressure Pot	3 – 5 mils	75-125 g/m ²	0.57-0.95 mils	15-24 microns

All measurements and application equipment settings are based on application at a temperature of 68°F. Viscosity will vary depending on the temperature of the liquid. The application equipment setting recommendations are guidelines only. The settings are starting point recommendations and adjustments to the equipment 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 30 psi (2.0bar)–40 psi (2.8 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 30 psi (2.0 bar)–40 psi (2.0 bar), Pot pressure 10 psi (0.60 bar) to 15 psi (1.0 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, .061 inch (1.5mm) -.072 inch (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 10 psi (0.60 bar) to 15 psi (1.0 bar)

PRODUCT NOTES

- Bernyl™ Intro Clear Precatalyzed Topcoat can be applied as a self-sealed system, or over Care Seal™ Precatalyzed Clear Sealer, Vinyl Precatalyzed Clear Sealer or Mini Precatalyzed 192 Clear Sealer.
- Bernyl™ Intro Clear Precatalyzed Topcoat is **not** recommended over light or pastel colors as the finish has an inherent yellow cast, and will continue to yellow over time.
- Maximum recommended dry film thickness for total coating system is 4.5 dry mils.

CONTACTS:

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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 Material Safety Data Sheet (MSDS) 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. A MSDS and/or EDS is 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.