

BERNYL™ UNISURFACER
DF5354001
DESCRIPTION:

Bernyl™ Unisurfacer is a fast drying, post-catalyzed, acid cured primer for interior MDF and interior solid woodwork. It has extremely good coverage and provides good hold-out of the top coat. Using Bernyl™ Unisurfacer provides a high solids primer with excellent filling and sanding characteristics. Top coating Bernyl™ Unisurfacer with Matador™ provides a superior finishing system. It can be tinted and has low HAPS.

PRODUCT DATA:

Color:	Wet: White Dry: White	VOC (as packaged, maximum, less water and exempt solvents):	3.75 lb/gal or 450 g/l
Solids % by Vol.:	46 % (Theoretical)	VOC (emitted):	3.75 lb/gal or 450 g/l
Solids % by Wt.:	65 % (Theoretical)	Lbs. VHAPs / Lbs. Solids:	0.08 before catalyzed
Weight / Gal.:	10.85 lb/gal	Flash Point (PMCC):	13° C / 55 ° F
Viscosity 23°C / 73°F:	#4 Ford: 175-215 Sec.	Photo Chemically Reactive:	Yes
Viscosity 23°C / 73°F:	DIN 4: 165-205 Sec.	Shelf Life:	12 months (at 15-25° C / 59°-77° F)
Viscosity 23°C / 73°F:	Zahn #2 sig.: N/A Sec.	Theo. Coverage@1mil dry	740 Sq. Ft./Gal. 100% Efficiency

MIXING / APPLICATION:

Working Temp: >18° C, 65° F substrate, coating and air
Catalyzation: 13 % by volume using either Catalyst 2750 (standard), Catalyst 494 (slow), or Catalyst 309 (HAPS free, fast).
Pot Life: 1 Day (23° C / 73° F)
Mixing: Add catalyst under agitation. Use proper graduated cup for measuring. Be attentive to the correct ratio. Add thinner after catalyst. Add thinner to desired viscosity, typically about 20 %.
Sealer: Bernyl™ Transparent Surfacer may be used under Bernyl™ Unisurfacer.
Reducer: Thinner 219 (regular), Thinner OC 140 (fast), Thinner 309 (fast, HAPS free), Thinner 419 (slow, HAPS free)
Application: 105 -150 (g/m²) Approx. 3.5 to 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 or 180 grit before spraying, MDF with 220-240 grit before spraying Sand the first coat (with 220 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 10% total colorant. Prior to application, test a sample piece to ensure proper color match.

DRYING TIMES TO SAND / STACK:

Method	Drying Temp.	Drying Time (@ 60 % RH and thickness @ 1 mil dry)
Air Drying	20° C / 68° F	1-2 hours. 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 – 5 mils	105 - 150 g/m ²	1.6 – 2.3 mils	41-58 microns
Conventional – Pressure Pot	3.5 – 5 mils	105 - 150 g/m ²	1.6 – 2.3 mils	41-58 microns
Airless Air Assist	3.5 – 5 mils	105 - 150 g/m ²	1.6 – 2.3 mils	41-58 microns
HVLP - Siphon Fed	3.5 – 5 mils	105 - 150 g/m ²	1.6 – 2.3 mils	41-58 microns
HVLP - Pressure Pot	3.5 – 5 mils	105 - 150 g/m ²	1.6 – 2.3 mils	41-58 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 28-32 seconds #4 ford viscosity cup, nozzle size 0.070 inches (1.8mm) – 0.0 inches (2.0 mm), atomizing air 25 psi (1.7 bar)–40 psi (2.8 bar).

Conventional Equipment Pressure Pot:

Reduce to 28-32 seconds #4 ford viscosity cup, nozzle size 0.070 inches (1.8mm) – 0.080 inches (2 mm), atomizing air 25 psi (1.7 bar)–40 psi (2.8 bar), Pot pressure 7 psi (0.48 bar) to 10 psi (0.68 bar)

Airless Air Assist Equipment:

Reduce to 28-32 seconds #4 ford viscosity cup, tip size .015 inches (0.33mm) - .016 inches (0.41mm), 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 28-32 seconds #4 ford viscosity cup, nozzle size 0.070inch (1.8 mm) -.080inch (2 mm) nozzle, atomizing air 25 psi (1.7 bar) -45 psi (3.1bar).

HVLP Equipment Pressure Pot:

Reduce to 28-32 seconds #4 ford viscosity cup, nozzle size 0.070 inches (1.8mm) – 0.080 inches (2 mm), atomizing air 25 psi (1.7 bar) -45 psi (3.1 bar). Pot pressure 7 psi (0.48 bar) to 10 psi (0.68 bar)

PRODUCT NOTES

- Remove any dirt, grease, glue or other construction contaminants and sand substrate prior to priming with Bernyl™ Unisurfacer.
- For best adhesion, sanding is critical. When using Bernyl™ Unisurfacer, sanding on solid wood should be done using a maximum of 180 grit sandpaper. All sanding belts and sandpaper used should not be worn, as worn sanding materials may polish the wood.
- When using Bernyl™ Unisurfacer on MDF, sand any routed areas with a minimum of 400 grit sandpaper. UV filled MDF board must be sanded before application of Bernyl™ Unisurfacer to ensure good inter-coat adhesion.
- Bernyl™ Unisurfacer must be catalyzed 13% by volume with the recommended catalyst.
- Maximum recommended dry film thickness for total coating system is 7 dry mils. Heavier film build may cause cracking.

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.