

BERNYL STRONG WHITE

DH5365-9001X (20,40,60,80) **BE-0250XX**



DESCRIPTION

This is a post catalyzed, acid cured enamel. It has very high solids content and gives very high build on Bernyl Surfacer White or Bernyl Unisurfacer. The surface appearance is superior, smooth, and of high performance. It meets ANSI/NKCA section 9.0 Finish Tests. Bernyl Strong is suitable as a top coat on interior furniture and decorations.

HIGHLIGHTS

- » **Meets E1 Formaldehyde Std**
- » **Low HAPS Solvent System**
- » **No Phthalate Plasticizers**
- » **Fast Dry Time**
- » **Excellent Sanding Properties**
- » **Excellent Filling Properties**
- » **Can be used on Solid Wood**
- » **Designed Specifically for MDF**
- » **Can be Tinted**

PRODUCT DATA:

Colour:	Wet: White Dry: White	VOC:	283 g/l or 2.36 lbs/gal
Solids % by Vol.:	66 % (Theoretical)	Lbs. VOC / Lbs. Solids:	0.26 before catalyzed
Solids % by Wt.:	79 % (Theoretical)	Lbs. VHAPs / Lbs. Solids:	0.07 before catalyzed
Weight / Gal.:	11.28 lb/gal	Flash Point (PMCC):	13° C / 55 ° F
Spec. Gravity:	1.35	Frost Sensitivity	No
Viscosity 23°C / 73°F:	#4 Ford: 155-185 Sec.	Photo Chemically Reactive:	Yes
Viscosity 23°C / 73°F:	DIN 4: 145-175 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	1061 Sq. Ft./Gal. 100% Efficiency

MIXING / APPLICATION:

Working Temp: >18° C, 65° F substrate, coating and air
Hardener: 2750 Regular Solvent; 494 Slow Solvent; 309 HAPs Free Solvent
Catalyzation: 16 % Parts by volume
Pot Life: 8 hrs. (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: Can be self sealed or used as a topcoat over Becker's post catalysed acid cured primers.
Reducer: Thinner 219 - Regular; Thinner OC 140 - Fast; Thinner 309 - Haps Free, Thinner 419 - Slow, Haps Free
Application: 100-125 (g/m²) Approx. 4-5 wet mils; Min 3 mil wet -Max 6 mil wet @ 60%RH
Surface Prep: Sand primer well with 320-400 grit sandpaper. Topcoat within 8 hours of sanding.
Use Directions: For interior use only. Add hardener and reducer then mix thoroughly before application. Stack only when the surface temperature is below 35° C / 95 ° F. Quicker stacking times are achievable relative to the amount of product that is applied.
App. Equip.: Conventional & HVLP Siphon and Gravity Feed and Pressure Pot Systems and Airless Air Assist Equipment.
Tinting: Can be tinted with 844, 844X and Care Tint colorants to a maximum of 10% total colourant. Prior to application test a sample piece to assure proper colour match.
Ind. Standards: This product meets the Conversion Varnish Opaque quality standard for AWI. It also meets KCMA and CKCA standards.

DRYING TIMES TO SAND / STACK / RECOAT WINDOW:

Method	Drying Temp.	Drying Time (@ 60 % RH and thickness @ 1 mil dry)
Air Drying	20° C / 68° F	2 – 4 hours dry to sand / 5-6 hr. dry to stack / recoat window: within 8 hours
*Forced Drying	70° C / 158° F	

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, The Sherwin-Williams Company cannot make any warranties as to the end result. Becker Acroma is a brand of The Sherwin-Williams Company.

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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	4 – 5 mils	100-125 g/m ²	2.0-2.5 mils	50-63 microns
Conventional – Pressure Pot	4 – 5 mils	100-125 g/m ²	2.0-2.5 mils	50-63 microns
Airless Air Assist	4– 5 mils	100-125 g/m ²	2.0-2.5 mils	50-63 microns
HVLP - Siphon Fed	4 – 5 mils	100-125 g/m ²	2.0-2.5 mils	50-63 microns
HVLP - Pressure Pot	4 – 5 mils	100-125 g/m ²	2.0-2.5 mils	50-63 microns

All measurements recommended are based on results at temperatures of 23°C/ 73°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 18-27 seconds #4 ford viscosity cup, nozzle size 0.070 inches (1.8mm) – 0.08 inches (2.0 mm), atomizing air 40 psi (2.8bar)–50 psi (3.5 bar).

Conventional Equipment Pressure Pot:

Reduce to 18-27 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 18-27 seconds #4 ford viscosity cup, tip size.011inches (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 17-27 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 17-27 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)

PRODUCT NOTES

- Bernyl Strong can be matched to your required colour and supplied in flat as well as high-gloss finishes. It has excellent application properties with very good sag resistance, excellent flow and short flash-off time, which gives you a dust-free surface after a very short time.
- Catalyzed (cross linked) type coatings develop extremely durable finishes but require controlled application procedures. Do not apply material in too heavy of a film
- Excessive coating weight can cause recoating and durability problems.
- To improve the flow 3%-5% Thinner 419 can be added.
- Maximum recommended dry film thickness for total coating system is 7 dry mils.
- Coating film thickness will affect final color

CONTACTS:

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