

DESCRIPTION:

Bernyl™ Surfacers White 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™ Surfacers White provides a high solids primer with excellent filling and sanding characteristics. Top coating Bernyl™ Unisurfacer with Matador™ provides a superior finishing system.

HIGHLIGHTS:

- » **Very High Volume Solids**
- » **Excellent Filling Properties**
- » **Excellent Sanding Properties**
- » **Designed Specifically for MDF**
- » **Can be Used on Solid Wood**
- » **Low HAPS**
- » **Fast Drying**
- » **Can be Tinted**

PRODUCT DATA:

| | | | |
|-------------------------------|-------------------------------------|--|----------------------------------|
| Color: | Wet: White Dry: White | VOC (as packaged, maximum, less water and exempt solvents): | 3.62 lb/gal, 434 g/l |
| Solids % by Vol.: | 48% (Theoretical) | VOC (emitted): | 3.62 lb/gal, 434 g/l |
| Solids % by Wt.: | 66% (Theoretical) | Lbs. VHAPs / Lbs. Solids: | 0.03 |
| Weight / Gal.: | 10.74 lb | Flash Point (PM/CC): | 13° C / 55° F |
| Viscosity 23°C / 73°F: | #4 Ford: 165-195 Sec. | Photo Chemically Reactive: | No |
| Viscosity 23°C / 73°F: | DIN 4: 155-185 Sec. | Shelf Life: | 1 year (at 15-25° C / 59°-77° F) |
| Viscosity 23°C / 73°F: | Zahn #2 sig.: N/A | Theo. Coverage@1mil dry | 770 Sq. Ft./Gal. 100% Efficiency |

MIXING / APPLICATION:

Working Temp: >18° C, 65° F substrate, coating and air
Hardener: Catalyst 309 HAPS Free
Catalyzation: 12% by volume using either Catalyst 2750 (standard), Catalyst 494 (slow), or Catalyst 309 (HAPS free, fast).
Pot Life: 24hrs. (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%. Mix thoroughly to ensure uniform consistency.
Sealer: For better filling characteristics when priming MDF, Bernyl™ Transparent Surfacers may be used as a basecoat prior to Bernyl™ Surfacers White.
Reducer: Thinner 219 (regular), Thinner OC 140 (fast), Thinner 309 (fast, HAPS free), Thinner 419 (slow, HAPS free)
Application: 100 - 125 (g/m²) Approx. 4 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 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. Add hardener and reducer then 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 |

APPLICATION RECOMMENDATIONS:

APPLICATION EQUIPMENT SETTINGS

| Method of Application | Wet Film | | Dry Film | |
|-----------------------------|----------|------------------|----------|---------|
| | Mils | g/m ² | Mils | Microns |
| Conventional – Siphon Fed | 4 – 5 | 100-125 | 1.9-2.4 | 48-61 |
| Conventional – Pressure Pot | 4 – 5 | 100-125 | 1.9-2.4 | 48-61 |
| Airless Air Assist | 4 – 5 | 100-125 | 1.9-2.4 | 48-61 |
| HVLP - Siphon Fed | 4 – 5 | 100-125 | 1.9-2.4 | 48-61 |
| HVLP - Pressure Pot | 4 – 5 | 100-125 | 1.9-2.4 | 48-61 |

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 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)

PRODUCT NOTES

- Remove any dirt, grease, glue or other construction contaminants and sand substrate prior to priming with Berynl™ Surfacers White.
- For best adhesion, sanding is critical. When using Berynl™ Surfacers White, 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 Berynl™ Surfacers White on MDF, sand any routed areas with a minimum of 400 grit sandpaper. UV filled MDF board must be sanded before application of Berynl™ Surfacers White to ensure good inter-coat adhesion.
- Berynl™ Surfacers White must be catalyzed 12% by volume with the recommended catalyst.
- If high temperatures or humid conditions are present, use Retarder 0987 at a maximum of 2% by volume for better flow and more open time.
- Maximum recommended dry film thickness for total coating system is 7 dry mils. Heavier film build may cause cracking.

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