BERNYL™ TRANSPARENT SURFACER

DF5300000

DESCRIPTION:

Bernyl™ Transparent Surfacer is a fast drying, acid cured, post-catalyzed surfacer designed to prime or seal interior MDF. Using this as the first coat on MDF will give very good adhesion to the substrate and excellent filling and sanding characteristics. This surfacer is commonly used as a surfacer over MDF and solid wood, followed by either Bernyl™ Surfacer or Bernyl™ Unisurfacer, then topcoated with Matador™. This finishing system can also be used on interior solid wood. This surfacer has very high volume solids and low HAPS.

PRODUCT DATA:

Color:	**Wet**: Translucent **Dry**: Clear	**VOC (as packaged, maximum, less water and exempt solvents):**	2.68 lb/gal, 322 g/l
Solids % by Vol.:	60 % (Theoretical)	**VOC (emitted):**	2.68 lb/gal, 322 g/l
Solids % by Wt.:	71 % (Theoretical)	**Lbs. VHAPs / Lbs. Solids:**	0.06
Weight / Gal.:	9.22 lb	**Flash Point (PM/CC):**	13° C /55° F
Viscosity 23ºC / 73ºF:	**#4 Ford**: 90-110 Sec.	**Photo Chemically Reactive:**	Yes
Viscosity 23ºC / 73ºF:	**DIN 4**: 80-100 Sec.	**Shelf Life:**	12 months (at 15-25º C / 59º-77º F)
Viscosity 23ºC / 73ºF:	**Zahn #2 sig.**: N/A	**Theo. Coverage@1mil dry**	960 Sq. Ft./Gal. 100% Efficiency

MIXING / APPLICATION:

Working Temp: >18º C, 65º F substrate, coating and air
Catalyzation: 12% by volume using either Catalyst 2750 (standard), Catalyst 494 (slow), or Catalayst 309 (HAPS free, fast).
Pot Life: 1 Day (23º C / 73º 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 10%.
Sealer: Bernyl™ Transparent Surfacer may be used under Bernyl™ Unisurfacer as a primer/surfacer.
Reducer: Thinner 219 (regular), Thinner OC 140 (fast), Thinner 309 (fast,HAPS free), Thinner 419 (slow, HAPS free)
Application: 90-110 (g/m²) Approx. 3.5 wet mils; Min. 1 mil wet-Max 4.5 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%. Sand substrate with 180 Grit . Sand the first coat (with 220 to 320 paper) in order 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 35ºC / 95 º 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% by weight. Chroma Chem 844 colorants can be used at the same amount with the exception of Yellow Oxide and Lamp Black. 844 Yellow Oxide and Lamp Black can result in unstable color combinations and are not recommended. 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	20º C / 68º F	2 hr. dry to **sand** / 2 - 4 hr. dry to **stack**

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APPLICATION RECOMMENDATIONS:

APPLICATION EQUIPMENT SETTINGS

Method of Application	Wet Film Mils / g/m²	Dry Film Mils / Microns
Conventional – Siphon Fed	3 – 4 mils / 90-110 g/m²	1.4-2.4 mils / 35-61 microns
Conventional – Pressure Pot	3 – 4 mils / 90-110 g/m²	1.4-2.4 mils / 35-61 microns
Airless Air Assist	3 – 4 mils / 90-110 g/m²	1.4-2.4 mils / 35-61 microns
HVLP - Siphon Fed	3 – 4 mils / 90-110 g/m²	1.4-2.4 mils / 35-61 microns
HVLP - Pressure Pot	3 – 4 mils / 90-110 g/m²	1.4-2.4 mils / 35-61 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 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.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 17-21 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:

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PRODUCT NOTES

- Remove any dirt, grease, glue or other construction contaminants and sand substrate prior to priming with Bernyl™ Transparent Surfacer.
- For best adhesion, sanding is critical. When using Bernyl™ Transparent Surfacer, 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™ Transparent Surfacer on MDF, sand any routed areas with a minimum of 400 grit sandpaper. UV filled MDF board must be sanded before application of Bernyl™ Transparent Surfacer to ensure good inter-coat adhesion.
- To help reduce trapped air, blushing or orange peel, use Retarder 0987 at a maximum of 2% by volume.
- Maximum recommended dry film thickness for total coating system is 7 dry mils.