



VARATHANE® PROFESSIONAL CLEAR FINISH OIL BASED (Interior & General Purpose)

DESCRIPTION AND USES

Varathane Professional Clear Finish is specifically developed to enhance the natural beauty of wood while providing the best scratch and stain resistance available. When it comes to polyurethanes, one formula does NOT fit all projects. Only Varathane offers application specific formulations:

Application

Diamond Wood Finish
Diamond Floor Finish
Diamond Outdoor Finish

Protection

Scratch and Stain
Scuff and Scratch
UV Protection &
Weatherability

Varathane Professional Clear Finish is ideal for all interior projects such as furniture, doors, cabinets, and trim. Over twice as durable as traditional wood finishes, Professional Clear Finish adds a warm, golden glow to your project. It has the fastest dry time of any oil-based polyurethane and is self leveling to save you time.

PRODUCTS

Type	Satin	Semi-Gloss	Gloss
319g Aerosol	Y110081	Y100081	Y90081
236mL	Y110061	Y100061	Y90061
946mL	Y110041	Y100041	Y90041

RECOMMENDED COMPANION PRODUCTS

Recommended use with Varathane Premium Oil Stains and Premium Gel Stains.

Varathane Premium Oil Stains are available in 24 colors and 4 different sizes (Trial Packets, 236mL, 946mL and 3.78L). Use the Varathane Trial Packets to sample different colours.

Varathane Premium Gel Stains are available in 10 colours and 2 different sizes (236mL and 946mL).

PRODUCT APPLICATION

PREVIOUSLY FINISHED SURFACES

For best adhesion, surfaces must be clean, dry, and free of old finishes, dust, dirt, oils, or foreign matter. Old finishes in poor condition must be removed. Sand to obtain a smooth surface. Remove all sanding dust using a vacuum or cloth dampened with mineral spirits.

STAINED OR PAINTED WOOD

Follow manufacturer's direction for application of stain or paint. Make certain surface is thoroughly dry before applying Varathane Professional Clear Finish. Refer to manufacturer's label for dry times. For best results, use Varathane Premium Wood Stains.

UNFINISHED SURFACE PREPARATION

Sand using 150-220 grit sandpaper and remove all sanding dust using a rag dampened with mineral spirits, or vacuum. If a filler or putty is used, make sure that it does not contain wax and allow for enough time to dry thoroughly.

APPLICATION TIPS

Use adequate ventilation at all times. Apply only when the air and surface temperatures are above 13°C (55°F), and below 32°C (90°F). Slower dry times may result from applications on redwood, cedar, or woods with high oil content, use of stain or sealer, or periods of high humidity and/or low temperatures. Use full strength. To prevent bubbles in the finish, do not over-brush, shake, or apply with a roller. Varathane Professional Clear Finish has a slight amber cast. Test Varathane Professional Clear Finish in an inconspicuous area. Testing is particularly important when applying over paints or stains as the appearance of these products may change slightly when an oil-based finish is applied.

APPLICATION (Aerosol)

- 1.) Shake can vigorously before and during use.
- 2.) Use a drop cloth or newspapers to protect surrounding areas from spray mist
- 3.) Spray light mist coats, holding can 20-30cm (10-12 inches) from surface. Move can with a smooth sweeping motion to avoid runs and sags. Several light coats give a better finish than one heavy coat.
- 4.) Allow finish to dry then re-coat. Dries to the touch in 2 hours, recoat after 8 hours. For extra smoothness, sand lightly with fine grit (#220) sandpaper before final coat.



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PRODUCT APPLICATION (CONTINUED)

APPLICATION (Aerosol cont.)

- 5.) For maximum durability, a minimum of 3 coats is recommended
- 6.) Clean spray button immediately after use by turning can upside down and pressing spray button for 10 seconds or until only clear gas comes out.

APPLICATION (Brush)

- 1.) Stir thoroughly before and during use. **DO NOT SHAKE**, shaking will create bubbles in the finish.
- 2.) Apply using a good quality, natural bristle brush, or applicator.
- 3.) Allow finish to dry minimum of 3 hours before re-coating. Lower temperatures and/or higher humidity may cause slower dry times. Re-coat only when previous coats have dried clear and feel hard. (Should no longer feel tacky to the touch.) If any coat has dried more than 12 hours, lightly sand before re-coating to avoid brush marks.
- 4.) Apply additional coats following directions above. A minimum of 3 coats is recommended. Allow finish to dry 24 hours before light use. Wait 3 days before subjecting surface to normal usage.

EQUIPMENT RECOMMENDATIONS

AIR-ATOMIZED SPRAY:

Type of Gun	Fluid Tip	Atomizing Pressure
Standard Compressed Air	1.0-1.5mm (0.039"-0.059")	45-80 p.s.i.
HVLP Turbin	1.0-1.5mm (0.039"-0.059")	10 p.s.i.
HVLP Conversion	1.0-1.5mm (0.039"-0.059")	10 p.s.i. (at the tip)

SPRAY TIPS

*Fluid Tips must be plastic or stainless steel.

PRODUCT APPLICATION (CONTINUED)

CLEANUP

For easy clean-up, use paint thinner or mineral spirits. Dispose of properly. For guidance on disposal of unused product, contact your local or provincial government environmental control agency.

PERFORMANCE CHARACTERISTICS

PENCIL HARDNESS

METHOD: ASTM D3363

RESULT: H

CHEMICAL RESISTANCE KCMA Rating 1-10 10= No defects

Alcohol-10

Grape juice, orange juice, lemon juice-10

Olive oil-10

Acetone-10

Vinegar-10

Coffee-10

Mustard-10

Catsup-10

HOFFMAN SCRATCH

Method: ASTM D2197

2.5 kilograms rupture-Pass

IMPACT RESISTANCE Direct/Reverse

METHOD: ASTM D2794

RESULT: >160/>160

TABER ABRASION

METHOD: ASTM D4060 CS17 Wheels 1000g load/1000cycles

RESULT: 125 mg loss

GLOSS (60°)

METHOD: ASTM D4587 (40 hours)

RESULT: Gloss >85%, Semi-Gloss 50-60%, Satin 20-30%

TECHNICAL DATA



VARATHANE® PROFESSIONAL CLEAR FINISH OIL BASED (Interior & General Purpose)

PHYSICAL PROPERTIES

		Satin	Semi-Gloss	Gloss
Resin Type		Oil Modified Urethane	Oil Modified Urethane	Oil Modified Urethane
Pigment Type		Silica matting agent	Silica matting agent	None
Solvents		Mineral spirits	Mineral spirits	Mineral spirits
Volatile Organic Compounds*		Less than 500g/l (4.17 lb/gal)	Less than 500g/l (4.17 lb/gal)	Less than 500g/l (4.17 lb/gal)
Weight Per Gallon/Liter	Per Gallon	7.0-7.2 lb	7.0-7.2 lb	6.9-7.1 lb
	Per Liter	0.84-0.86kg	0.84-0.86 kg	0.83-0.85 kg
Solids	By Weight	48.1-50.1%	47.9%-49.9%	47.7%-49.7%
	By Volume	42.6-44.6%	42.8-44.8%	42.8-44.8%
Recommended Dry Film Thickness (DFT) Per Coat		0.8 – 1.5 mils (19-38µ)	0.8 – 1.5 mils (19-38µ)	0.8 – 1.5 mils (19-38µ)
Wet Film to Achieve DFT Per Coat		1½ - 3 mils (37.5-75µ)	1½ - 3 mils (37.5-75µ)	1½ - 3 mils (37.5-75µ)
Theoretical Coverage @ 1mil DFT (25µ)		63.8 – 66.3 m ² /L 681 –714 sq ft/gal	63.3 – 66.6 m ² /L 685 –717 sq ft/gal	63.3 – 66.6 m ² /L 685 –717 sq ft/gal
Practical Coverage @ Recommended DFT (Assumes 15% Material Loss)		53.8 – 56.4 m ² /L 579 – 607 sq ft/gal	54.1 – 56.6 m ² /L 582 – 609 sq ft/gal	54.1 – 56.6 m ² /L 582 – 609 sq ft/gal
Dry Times at 21°-27°C (70°-80°F) and 50% Relative Humidity	Tack Free	3-4 hours	3-4 hours	3-4 hours
	Handle	4-6 hours	4-6 hours	4-6 hours
	Recoat	3 hours	3 hours	3 hours
Dry Heat Resistance		100°C (212°F)	100°C (212°F)	100°C (212°F)
Shelf Life		3 years	3 years	3 years
Safety Information	Flash Point	41°C (106°F) Setaflash	41°C (106°F) Setaflash	41°C (106°F) Setaflash
	Contains	No lead has been deliberately added.	No lead has been deliberately added.	No lead has been deliberately added.
	Warning!	CONTAINS: PETROLEUM DISTILLATES WARNING. VAPOR MAY BE HARMFUL IF INHALED. KEEP AWAY FROM OPEN FLAME. HARMFUL IF SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION. WEAR EYE PROTECTION AND PROTECTIVE CLOTHING. REFER TO MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.		

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