



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

DESCRIPTION AND USES

Varathane Professional Clear Finish Water based 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 is fast drying and self leveling to save you time.

PRODUCTS

Type	Satin	Semi-Gloss	Gloss
236mL	248037	248038	248036
946mL	248034	248035	248033
3.78L	248016	248017	248015

RECOMMENDED COMPANION PRODUCTS

Recommended use with Varathane Premium Oil Stains Gel Stains or Diamond Water based 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).

Varathane Diamond Wood Stains are available in 10 colours and a variety tint colours. See your store for colours. Available in one size. (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. Do not use steel wool as rust may develop after finish has been applied. Remove all sanding dust using a vacuum or cloth dampened with water.

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 Water based. Refer to manufacturer's label for dry times. For best results, use Varathane Diamond Wood Stain.

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 Water based has a slight amber cast. Test in an inconspicuous area. Testing is particularly important when applying over paints or stains as the appearance of these products may change slightly.

When using multiple containers of product, intermixing (boxing) should be done to ensure sheen uniformity.



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PRODUCT APPLICATION (CONTINUED)

APPLICATION

1. Stir thoroughly before and during use. **DO NOT SHAKE**, shaking will create bubbles in the finish.
2. Apply using a good quality, synthetic bristle brush, foam brush, or applicator.
3. Allow finish to dry minimum of 2 hours before re-coating. Lower temperatures and/or higher humidity may cause slower dry times. Re-coat only when previous coats have dried and feel hard. (Should no longer feel tacky to the touch.) A powder should develop when lightly sanded. If any coat has dried more than 24 hours, lightly sand before re-coating to avoid brush marks.
4. Apply additional coats following directions above. A minimum of 3 coats is recommended. If grain raise occurs, sand smooth before final coat. 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	1.0-1.3mm (0.039"-0.051")	45-80 p.s.i.
HVLP Turbin	1.0-1.3mm (0.039"-0.051")	10 p.s.i.
HVLP Conversion	1.0-1.3mm (0.039"-0.051")	10 p.s.i. (at the tip)

SPRAY TIPS

*Fluid Tips must be plastic or stainless steel.

PRODUCT APPLICATION (CONTINUED)

CLEANUP

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

DO NOT ALLOW PRODUCT TO FREEZE

PERFORMANCE CHARACTERISTICS

PENCIL HARDNESS

METHOD: D3363
RESULT: 2H

CHEMICAL RESISTANCE KCMA Rating 1-10 10= No defects

Vinegar	10
Lemon juice	10
Grape juice	10
Orange juice	10
Catsup	10
Coffee	10
Olive Oil	10
100 proof alcohol	7 recovers
mustard	9 slight stain
Spic and Span	10

HOFFMAN SCRATCH

Method: D2197
2.1 kilograms to rupture

IMPACT RESISTANCE Direct/Reverse

METHOD: D2794
RESULT: 80/70

TABER ABRASION

METHOD: ASTM D4060
RESULT: Approx. 100 mg loss CS 17 1000g 1000 cycles

GLOSS (60°)

METHOD: D523
RESULT: 25/55/90

TECHNICAL DATA



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

PHYSICAL PROPERTIES

		Satin	Semi-Gloss	Gloss
Resin Type		Oil Modified Urethane-Acrylic	Oil Modified Urethane-Acrylic	Oil Modified Urethane-Acrylic
Pigment Type		Wax matting agent	Wax matting agent	None
Solvents		Glycol ethers-water	Glycol ethers-water	Glycol ethers-water
Volatile Organic Compounds*		Less than 125g/l (1.0 lb/gal)	Less than 125g/l (1.0 lb/gal)	Less than 145g/l (1.2 lb/gal)
Weight Per Gallon/Liter	Per Gallon	8.4-8.6 lb	8.4-8.6 lb	8.4-8.6 lb
	Per Liter	1.00-1.03 kg	1.00-1.03 kg	1.0-1.03 kg
Solids	By Weight	30-32%	30.2%-32.2%	29-31%
	By Volume	27.9-29.9%	28-30%	26.5-28.5%
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)		10.9 – 11.8 m ² /L 447 – 481 sq ft/gal	10.9 – 11.8 m ² /L 447 – 481 sq ft/gal	10.4 – 11.2 m ² /L 425 – 457 sq ft/gal
Practical Coverage @ Recommended DFT (Assumes 15% Material Loss)		9.3 – 10 m ² /L 380– 409 sq ft/gal	9.3 – 10 m ² /L 380– 409 sq ft/gal	8.8 – 9.5 m ² /L 361– 388 sq ft/gal
Dry Times at 21°-27°C (70°-80°F) and 50% Relative Humidity	1 hours	1 hours	1 hours	1 hours
	1.5 hours	1.5 hours	1.5 hours	1.5 hours
	2 hours	2 hours	2 hours	2 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	>100°C (212°F) Setaflash	>100°C (212°F) Setaflash	>100°C (212°F) Setaflash
	Contains	No lead has been deliberately added.	No lead has been deliberately added.	No lead has been deliberately added.
	Warning!	CONTAINS: GLYCOL ETHERS, N-METHYL PYROLIDONE 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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