



VARATHANE® ONE-STEP STAIN & POLYURETHANE WATER BASED

DESCRIPTION AND USES

Varathane Water-Base One-Step Stain & Polyurethane allows the user to both stain and protect their wood surfaces in one easy application. By combining a stain with polyurethane, the need for multiple product application is eliminated and wood surfaces are enriched with a deep, rich beautiful colour and protected by long lasting polyurethane with a semi-gloss finish. Finish projects quickly with a virtually odourless and fast drying finish. The unique water base formula of this product allows for the ease of soap and water clean up. *One-Step* is an ideal solution for indoor wood finishing projects including: Furniture, cabinets, trim, doors, and more. NOT recommended for Floors.

Available in eight distinct colours. *Varathane Water-Base One-Step Stain & Polyurethane* offers an easy and convenient alternative to the traditional method of staining and protecting.

PRODUCTS

Type	946mL
Golden Pecan	Y240198
Golden Oak	Y240199
Provincial	Y240210
Traditional Cherry	Y240211
Red Mahogany	Y240212
Cabernet	Y240213
Early American	Y240214
Dark Walnut	Y240215

RECOMMENDED COMPANION PRODUCTS

Varathane Wood Conditioner is an essential step to ensure a uniform finish on soft woods that have an uneven grain structure like pine, fir, alder, and birch. It is available in half-pints and quarts.

PRODUCT APPLICATION

PREVIOUSLY FINISHED SURFACES

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

STAINED OR PAINTED WOOD

Follow label directions for application of stain. Make certain surface is thoroughly dry before applying *Varathane Water-Base One-Step Stain & Polyurethane*. Refer to label for dry times. For additional protection, topcoat with *Varathane Premium Interior Diamond Wood Finish*.

TESTING COLOUR

Be sure to test your stain to verify the desired colour. To test, apply the stain in an inconspicuous area. When testing on soft wood, be sure to sand and condition the test area.

UNFINISHED SURFACE PREPARATION

Begin sanding with #120 grit sandpaper and progress through #150, #180 and #220 grits. Before staining, 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. Soft woods such as pine, fir and maple require a wood conditioner. Use *Varathane Premium Wood Conditioner* before sanding and staining.

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 a high oil content, use of stain or sealer, or periods of high humidity and/or low temperatures.

APPLICATION

- 1.) Stir thoroughly before and during use. DO NOT SHAKE
- 2.) Apply using a good quality, synthetic bristle brush, or foam brush.
- 3.) Apply the stain direction of the grain until a uniform film has been achieved. To prevent brush marks, avoid excessive brushing.
- 4.) A second coat can be applied after 2 hours. Lightly sand between coats with #320 grit sandpaper. Remove all sanding dust before applying additional coats.



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PRODUCT APPLICATION (CONTINUED)

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

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.

**When using a standard compressed gun, product needs to be thinned 15-10% with water.

PERFORMANCE CHARACTERISTICS

PENCIL HARDNESS

METHOD: ASTM D3363

RESULT:

SWARD HARDNESS

METHOD: ASTM D2134

RESULT: 30

CHEMICAL RESISTANCE KCMA Rating 1-10 10= No defects

Alcohol-5

Grape Juice, orange juice, lemon juice-10

Olive oil-10

Acetone-4

Coffee-10

Mustard-7

Catsup-10

Coke-10

HOFFMAN SCRATCH

Method: ASTM D2197

2.1 kilograms rupture-

TABER ABRASION

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

RESULT: 135 mg loss

GLOSS (60°)

METHOD: ASTM D4587

RESULT: 50-60

TECHNICAL DATA



VARATHANE® ONE-STEP STAIN & POLYURETHANE WATER BASED

PHYSICAL PROPERTIES

		Water-Based Stain and Polyurethane
Resin Type		Acrylic-Water-based Oil Modified Urethane
Pigment Type		Micro Particle Organic Pigments
Solvents		Glycol Ethers and nMethyl Pyrrolidone
Volatile Organic Compounds*		Less than 260g/l (2.14 lb/gal)
Weight Per Gallon	Per Gallon	8.4-8.6 lb
	Per Liter	1.01-1.03kg
Solids	By Weight	26.7-28.7%
	By Volume	24.5-26.5%
Recommended Dry Film Thickness (DFT) Per Coat		0.8 – 1.5 mils (19-38μ)
Wet Film to Achieve DFT Per Coat		1½ - 3 mils (37.5-75μ)
Theoretical Coverage @ 1mil DFT (25μ)		393-423 sq ft/gal (9.6-10.4m²/l)
Practical Coverage @ Recommended DFT (Assumes 15% Material Loss)		334–360 sq ft/gal (8.2-8.8m²/l)
Dry Times at 70°-80°F (21°-27°C) and 50% Relative Humidity	Tack Free	1/2 hour
	Handle	1 hours
	Recoat	1-2 hours
Dry Heat Resistance		212°F (100°C)
Shelf Life		3 years
Safety Information	Flash Point	205°F (96.1°C) Setaflash
	Contains	No lead has been deliberately added.
	Warning!	CONTAINS: GLYCOL ETHERS and n METHYL PYRROLIDONE 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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