

STAIN	TECHNICAL DATA	VAR-02
	VARATHANE® OIL-BASED SPAR URETHANE	

DESCRIPTION AND USES

Varathane® Oil-Based Spar Urethane is an oil-modified polyurethane designed to provide excellent protection from UV light and weather. This product is ideal for use on railings, fences, patio furniture, house and trim. It is NOT recommended for decks or high traffic areas, siding, or rough-sawn surfaces.

PRODUCTS

Description	Quart	Pint	Gallon
Gloss	9241	9251	9231
Semi-Gloss	9441	--	9431
Satin	9341	9351	9331

PRODUCT APPLICATION

SURFACE PREPARATION

Previously Finished Surfaces – To ensure proper adhesion, surfaces must be clean, dry, and free of wax, grease, oil, shellac, lacquer, mildew, and polishes. Remove wax with a wax stripper, shellac with a paint stripper, and mildew with a solution of 10% household bleach and water. Old finishes in poor condition should be removed. Sand using 150-220 grit sandpaper to obtain a smooth surface. Remove all sanding dust using a vacuum, tack cloth, or cloth dampened with mineral spirits.

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

Stained or Painted Wood – Follow manufacturer's directions for application of the stain or paint. Make certain the surface is thoroughly dry before applying Varathane Oil-Based Spar Polyurethane. Refer to the manufacturer's label for dry times.

PRODUCT APPLICATION (cont.)

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

APPLICATION

Use in an area with adequate ventilation such as an open garage. Use only when air (ambient) temperature is between 55-90°F (13-32°C) and relative humidity is below 85%. Lower temperatures and/or high humidity may cause slower dry times and slower dry may also result from applications on redwood, cedar or woods with high oil content, or when applied over some stains. Using over white or light paints could cause discoloration. Do not thin. Stir thoroughly before and during use. To prevent bubbles in the finish, **DO NOT SHAKE**.

Apply using a good quality natural bristle brush or applicator. To prevent bubbles in the finish, do not over-brush or apply with a roller. Allow the finish to dry 8 hours before re-coating. Re-coat only when previous coats have dried clear and feel hard. The coating should no longer feel tacky to the touch. If any coat has dried more than 12 hours, lightly sand before applying another coat. A minimum of two coats is recommended. Allow the finish to dry 24 hours before light use. Wait 3 days before subjecting the surface to normal usage.

DRY AND RECOAT TIMES

Dry and recoat times are based on 70°F and 50% relative humidity. Allow more time at cooler temperatures. Dries to the touch in 2 hours, to handle in 4-6 hours, and can be recoated in 8 hours. Surface is ready for light use in 24 hours and full use in 3 days.

CLEAN UP

Clean application tools and equipment with mineral spirits.

**TECHNICAL DATA****VARATHANE® OIL-BASED SPAR POLYURETHANE****PHYSICAL PROPERTIES**

		OIL-BASED SPAR POLYURETHANE
Resin Type		Oil-Modified Urethane
Pigment Type		None
Solvents		Mineral Spirits
Weight	Per Gallon	7.50-8.00 lbs.
	Per Liter	0.86-1.04 kg
Solids	By Weight	61.6-63.5%
	By Volume	55.6-55.8%
Volatile Organic Compounds		<350 g/l (2.9 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		1.0-2.0 mils (25-50 μ)
Wet Film to Achieve DFT (unthinned material)		2.0-3.5 mils (50-87.5 μ)
Theoretical Coverage at 1 mil DFT (25μ)		892-895 sq.ft./gal. (21.9-22.0 m ² /l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		380-760 sq.ft./gal. (9.3-18.7 m ² /l) 95-190 sq.ft./quart (2.3-4.7 m ² /l)
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Touch	2 hours
	Handle	4-6 hours
	Recoat	8 hours
Shelf Life		3 years
Flash Point		106°F (41°C)
Safety Information		For additional information, see MSDS

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