



LENMAR®

SPAR VARNISH 1V-109

Features

- Contains a ultra-violet screening agent, which enables it to exceed the service of conventional spar varnish.
- Excellent gloss retention
- Will not scratch white or turn white under water, and flows out to a sparkling gloss finish, free of bush marks
- Exterior use

Recommended For

For exterior use on new or previously varnished wood surfaces which are exposed to severe weathering such as boat decks, exterior trim, lawn furniture, and doors.

General Description

A clear, transparent varnish with exceptional durability for use on exterior wood and metal. Because it screens out the destructive ultraviolet rays of the sun, it provides more than double the service of most conventional spar varnishes and does so without loss of gloss or darkening. Especially recommended for surfaces exposed to the weather, such as natural or stained wood siding and trim, and boats — decks and spars. Decks, chairs and other surfaces subject to wear and abrasion should be thoroughly hard before use.

Limitations

- Do not apply when air and surface temperatures are below 40 °F (4.4 °C).
- Avoid application over shellac.
- Three coats are recommended for maximum durability.
- Product film has a distinct amber tone.

Product Information

<p>Colors — Standard: Clear</p> <p>— Tint Bases: N/A</p> <p>— Special Colors: N/A</p> <p>Certification & Qualifications: The products supported by this data sheet contain a maximum of 350 grams per liter VOC /VOS (2.9 lbs/gal.) excluding water & exempt solvents.</p> <table border="1"> <thead> <tr> <th>VOC REGION</th> <th>COMPLIANT</th> </tr> </thead> <tbody> <tr><td>FEDERAL</td><td>YES</td></tr> <tr><td>OTC</td><td>YES</td></tr> <tr><td>LADCO</td><td>YES</td></tr> <tr><td>OTCII</td><td>NO</td></tr> <tr><td>OTCII RI</td><td>YES</td></tr> <tr><td>CARB</td><td>YES</td></tr> <tr><td>CARB07</td><td>NO</td></tr> <tr><td>UTAH</td><td>NO</td></tr> <tr><td>AZMC</td><td>YES</td></tr> <tr><td>SCAQMD</td><td>NO</td></tr> </tbody> </table> <p>Technical Assistance: Available through your local authorized independent Lenmar dealer. For the location of the dealer nearest you, call 1-877-299-3600 or visit www.lenmar-coatings.com</p>	VOC REGION	COMPLIANT	FEDERAL	YES	OTC	YES	LADCO	YES	OTCII	NO	OTCII RI	YES	CARB	YES	CARB07	NO	UTAH	NO	AZMC	YES	SCAQMD	NO	<table border="1"> <thead> <tr> <th colspan="2">Technical Data</th> <th>Clear</th> </tr> </thead> <tbody> <tr> <td>Vehicle Type</td> <td colspan="2">Modified Tung-Linseed Caster Oil</td> </tr> <tr> <td>Pigment Type</td> <td colspan="2">N/A</td> </tr> <tr> <td>Weight Solids</td> <td colspan="2">N/A</td> </tr> <tr> <td>Volume Solids</td> <td colspan="2">57% ± 1.0%</td> </tr> <tr> <td>Coverage per Gallon at 2 Mil DFT</td> <td colspan="2">400 – 500 Sq. Ft.</td> </tr> <tr> <td rowspan="2">Recommended Film Thickness</td> <td>– Wet</td> <td>2.9 mils</td> </tr> <tr> <td>– Dry</td> <td>1.7 mils</td> </tr> <tr> <td colspan="3">Coverage calculation does not include spray loss or equipment inefficiency. Also allow for wood species, surface preparation, surface defects and porosity of substrate to affect spread rates.</td> </tr> <tr> <td rowspan="2">Dry Time @ 77 °F (25 °C) @ 50% RH</td> <td>– To Touch</td> <td>4 Hours</td> </tr> <tr> <td>– Recoat</td> <td>18 Hours</td> </tr> <tr> <td colspan="3">High humidity and cool temperatures will result in longer dry and recoat times.</td> </tr> <tr> <td>Dries By</td> <td colspan="2">Evaporation, Oxidation</td> </tr> <tr> <td>Viscosity</td> <td colspan="2">60 ± 5 KU</td> </tr> <tr> <td>Flash Point</td> <td colspan="2">108 °F</td> </tr> <tr> <td>Gloss / Sheen</td> <td colspan="2">High Gloss</td> </tr> <tr> <td rowspan="2">Surface Temperature at Application</td> <td>– Min.</td> <td>40 °F</td> </tr> <tr> <td>– Max.</td> <td>90 °F</td> </tr> <tr> <td>Thin With</td> <td colspan="2">Do Not Thin</td> </tr> <tr> <td>Clean Up Thinner</td> <td colspan="2">Mineral Spirits</td> </tr> <tr> <td>Weight Per Gallon</td> <td colspan="2">7.5 lbs</td> </tr> <tr> <td rowspan="2">Storage Temperature</td> <td>– Min.</td> <td>40 °F</td> </tr> <tr> <td>– Max.</td> <td>90 °F</td> </tr> <tr> <td colspan="3" style="text-align: center;">Volatile Organic Compounds (VOC)</td> </tr> <tr> <td colspan="3" style="text-align: center;">348 Grams/Liter 2.9 Lbs./Gallon</td> </tr> </tbody> </table>	Technical Data		Clear	Vehicle Type	Modified Tung-Linseed Caster Oil		Pigment Type	N/A		Weight Solids	N/A		Volume Solids	57% ± 1.0%		Coverage per Gallon at 2 Mil DFT	400 – 500 Sq. Ft.		Recommended Film Thickness	– Wet	2.9 mils	– Dry	1.7 mils	Coverage calculation does not include spray loss or equipment inefficiency. Also allow for wood species, surface preparation, surface defects and porosity of substrate to affect spread rates.			Dry Time @ 77 °F (25 °C) @ 50% RH	– To Touch	4 Hours	– Recoat	18 Hours	High humidity and cool temperatures will result in longer dry and recoat times.			Dries By	Evaporation, Oxidation		Viscosity	60 ± 5 KU		Flash Point	108 °F		Gloss / Sheen	High Gloss		Surface Temperature at Application	– Min.	40 °F	– Max.	90 °F	Thin With	Do Not Thin		Clean Up Thinner	Mineral Spirits		Weight Per Gallon	7.5 lbs		Storage Temperature	– Min.	40 °F	– Max.	90 °F	Volatile Organic Compounds (VOC)			348 Grams/Liter 2.9 Lbs./Gallon		
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May, 2022

Exterior Marine Spar Varnish 1V-109

Surface Preparation

Wood, New: All surfaces must be dry, sanded smooth, and free of dirt, dust, or grit. Nail holes, cracks, and blemishes should be repaired with a filler tinted to match color of the wood. Open grained wood such as mahogany, oak or walnut should be filled with a wood grain filler. The application of the filler can be done before or after staining depending on stain color and the stain manufacturers' recommendations. Lenmar® Interior Waterborne Wiping Wood Stain 1WB-1300 may be used under Spar Varnish 1V-109 on exterior surfaces that are sheltered from direct exposure to the elements (such as exterior doors that are covered by a porch ceiling).

Finish: 2–3 coats Spar Varnish 1V-109 (Sand lightly between coats after overnight dry.)

Wood, Re-finish: Surfaces that have been treated with wax or oily surface restoration liquids must be thoroughly cleaned with appropriate solvents. Periodically change to clean wiping cloths to avoid redistribution of residue. Special attention should be given to removal of black heel marks on floors. Flaking or scaling coatings must be removed by scraping and sanding with fine grit sandpaper. To assure adhesion, glossy surfaces must be dulled with fine grade steel wool or sandpaper. Surfaces requiring complete restoration must have the finish removed by either power sanding or use of paint and varnish remover, then treated as new surface.

Finish: 2–3 coats Spar Varnish 1V-109 (Sand lightly between coats after overnight dry.)

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 Informational Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Application

Stir thoroughly and apply as received in the container with a good quality china bristle brush, a short nap roller, or an application pad.

Allow overnight dry; then sand lightly, rubbing with the grain, before recoating. For maximum wear, a minimum of two coats are advisable. Allow final coat to harden for 24 hours before subjecting to normal floor traffic.

Spray, Airless: Fluid Pressure — 1,500 PSI;

Tip — .011 - .013 Orifice

Clean up

Clean equipment and tools with mineral spirits.

DANGER – Rags, steel wool or waste soaked with the product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container.

USE COMPLETELY OR DISPOSE OF PROPERLY.

This product contains organic solvents which may cause adverse effects to the environment if handled improperly. Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition.

Disposal of wastes containing either organic solvents or free-liquids in landfills is prohibited. **Local disposal requirements vary; consult your sanitation department or state-designated environmental agency for local disposal options.**

Environmental Health & Safety Information

DANGER!

COMBUSTIBLE LIQUID AND VAPOR
VAPOR HARMFUL

Contains: Petroleum Distillates, Stoddard Solvent

HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD. CAUSES IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT.

NOTICE: Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Keep away from heat and flame. **Use only with adequate ventilation.** Do not breathe vapors, spray mist or sanding dust. Avoid contact with eyes and prolonged or repeated contact with skin. To avoid breathing vapors or spray mist open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor levels are above the applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Aspiration Hazard. Small amounts aspirated into the respiratory system may cause mild to severe pulmonary injury. Close container after each use. Wash thoroughly after handling.



WARNING: Cancer and Reproductive Harm—
www.P65warnings.ca.gov

FIRST AID: If affected by inhalation of vapors or spray mist, remove to fresh air. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention immediately; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If swallowed, do not induce vomiting. Get medical attention immediately.

IN CASE OF FIRE – Use foam, CO₂, dry chemical or water fog.

SPILL – Absorb with inert material and dispose of as specified under "Clean Up".

**KEEP OUT OF REACH OF CHILDREN
FOR WOOD SUBSTRATES ONLY**

**READ ALL DIRECTIONS BEFORE USE.
UNDERSTAND ALL DANGERS WITH THIS
PRODUCT PRIOR TO USE.**

**Refer to Safety Data Sheet for
additional health and safety information.**