

Liquid Vinyl Siding™ guidelines

Apply Liquid Vinyl Coating by brush, roller or airless sprayer.

Generally accepted painting principles should be followed when applying Liquid Vinyl Siding products. These are general guidelines; additional procedures may be necessary depending on the substrate. Temperature conditions at the time of application and for the 48 hour period following application play a significant role in the formation of the vinyl film. Coating outside the specified temperature range can adversely affect the coating's porosity, weaken the resulting film and degrade performance.

Use for

Wood, stucco, brick, concrete block, masonry, composite siding including Hardi-Plank®, galvanized metal panels, vinyl and aluminum siding and other paintable surfaces. Not recommended for redwood, roofing applications, flooring surfaces, decking boards and surfaces that may become submerged in water.

General

- **Substrate must be sound and in generally good repair.** Repair defected surfaces, replace rotted wood. Seal cracks and gaps over 1/16 inch and areas susceptible to unwanted water penetration.
- Previous coats of paint do not necessarily need to be removed if sound. Test for soundness before coating over oil base paint. When three or more layers exist, some or all of the layers should be removed to support the weight of the new coating being added.
- Do not apply in direct sunlight or over hot surfaces. On a hot day, follow the sun around the house by coating the west side in the morning and ending at the east side in the afternoon. Rig temporary shading if necessary.
- **Only apply when the air, surface and product temperature is above 50°F.** Temperature must remain above 50°F for 2 hours after coating. Temperature must remain above 40°F for the following 48 hours after coating.
- High winds can cause the coating to dry too quickly causing improper curing and a weakened final film. **Wind speed, including gusts, should be below 15 MPH** during application and for two hours after completion.
- Do not apply LVS products when dew is present or when temperature is within 5 degrees of the dew point.
- Surfaces must be completely dry. **The total moisture content must not exceed 14%.** IMPORTANT - ALWAYS CHECK MOISTURE CONTENT OF SUBSTRATE BEFORE APPLYING LVS PRODUCTS. Use a reliable meter to check moisture content to ensure maximum allowable M.C. is not exceeded. Moisture readings over 13% generally indicates a moisture related problem or be new wood that has not yet dried or be the result of recent wetting, such as rain or a sprinkler hitting the house. Identify and correct moisture related issues and wait until the moisture level falls below 14% before applying LVS products.
- **Do not coat if rain is expected within 24 hours or a storm front with heavy precipitation is anticipated within the next few days.** Ensure enough curing time before the coating is subjected to inclement weather. A pop up shower an hour or two after application or after the film is dry to the touch generally will not cause harm.
- Shake or stir products into a cramy, uniform consistency prior to use. Occasionally stir during use.
- Make sure added colorant is evenly dispersed. Box colors for uniformity.

Surface Preparation

- Thoroughly clean surfaces by pressure washing or hand wiping. Remove waxes, grease, oil and other contaminants that may interfere with adhesion. Rinse well with an ample amount of water when chemical cleaners are used and allow surface to dry before coating. Ensure surface is free of debris before coating.
- Scrape or sand paint that is loose, peeling, alligating or flaking. Rough glossy or shiny, smooth areas by light sanding.
- Cellulose does not provide an adequate bond. Discolored surface wood must be removed until down to sound material. Where this cannot be achieved by pressure washing, sanding or scraping, the substrate should be replaced.
- Test for adhesion when multiple layers of oil base paint are present or existing layers of paint is suspect. Remove the weak layers until down to a sound layer that will support a new layer of coating.
- Remove cracking and failing caulk. Fill gaps and cracks over 1/16 inch. Do not rely solely on caulk for filling gaps over 1/4 inch wide; use backer rod or an appropriate filling compound. **DO NOT USE SILICONIZED SEALANTS.** A Urethane Elastomeric Sealant with 30-year Duration or better should be used.
Suggested sealant - Sherwin Williams SherMax, Benjamin Moore Moorlastic 465, OSI Quad Max, GE Infinity 2900
- Seal new wood and bare wood exposed by scraping or sanding with a generic primer/sealer. Prime back of boards and especially end cuts where practical.
- Softwoods such as cedar and cypress should be aggressively pressure washed to remove loose existing paint. Seal bare wood with a penetrating oil-based sealer **before applying Vinyl Pro-Prime™.**
Suggested oil base sealers: Benjamin Moore (100) Moorwhite Penetrating Exterior Primer, Sherwin Williams (Y24W8020) Exterior Oil-Based Wood Primer
- Preventive measures should be taken for wood susceptible to staining or where bleeding has occurred by applying a stain blocker. Always check the effectiveness of the stain blocker before proceeding. An additional coat or two of stain block may be necessary at times. Shellac based sealers can be effective on problem areas such as sappy knotholes.
- Remove visible rust by wire brushing, sanding or sand blasting. After the visible rust is removed, seal with rust inhibiting primer and allow drying before proceeding to apply Vinyl Pro-Prime™.
- Rough metal surfaces by light sanding or chemical etching to create a tooth for adhesion. Prime bare metal with an appropriate metal (DTM) primer before applying Vinyl Pro-Prime™.

Product Application

Base coat -

VINYL PRO-PRIME™

Spread rate: 200 SF/Gal

Apply at a wet thickness of 8/1,000 inch (8 mil)

WARNING! USING ANOTHER PRIMER CAN CAUSE ADHESION PROBLEMS AND PEELING ISSUES. LIQUID VINYL SIDING SHOULD ALWAYS BE COATED OVER VINYL PRO-PRIME.

Product Application continued

- Spot check moisture content of surfaces, Verify M.C. is below 14% below applying Vinyl Pro-Prime™.
- Fully coat surface (full prime) with Vinyl Pro-Prime™. Vinyl Pro-Prime™ must be applied over any other primer or sealant that may have been used.
- Allow Vinyl Pro-Prime™ to fully cure before top coating. Ideal curing time is 24 to 48 hours.

Finish top coat -

LIQUID VINYL SIDING™

Spread rate: do not to exceed 100 SF/Gal

Apply at a minimum wet thickness of 20/1,000 inch (20 mil)

Dry to Touch - 30 to 60 Minutes

Recoat - 1 to 2 Hours (*dependant on weather*)

Full Cure - 30 to 60 days (*cold temperature and high humidity slows the curing time*)

- Clean surfaces if Vinyl Pro-Prime has been exposed to weather for more than 7 days,
- **Apply by BRUSHING** - Use a good quality polyester brush. Fully load the brush and avoid overworking the coating. A brush will not hold enough coating to apply the minimum required thickness with one coat. Additional coats are required when applying by brush. Allow layers to sufficiently dry to avoid tearing the vinyl film when adding another coat.
- **Apply by ROLLING** - Use a cover with a medium nap. Roll two or more coats as necessary to achieve the minimum required thickness. Maintain a wet edge during application. The final pass should be completed in a downward direction to ensure a uniform appearance.
- **Apply by SPRAYING** - Spraying is the suggested method of application since it produces a more uniform coat without brush marks. Chunks of coagulated coating can occasionally develop in pails during shipping that may clog the sprayer. Products should be strained before running through the sprayer to prevent clogging and is cheap insurance that the sprayer will function properly. Liquid Vinyl Siding™ typically can be sprayed at a 20 mil thickness with one heavy coat. It is advisable to spray multiple, thinner coats during cooler weather and in high humidity. Suggested tip sizes are 419, 521 and 523. **Larger tips should only be used by experienced applicators** since it disperses the coating thinner in the center of the fan and heavier at the ends. Uneven distribution increases chance of defects. Always check for application errors such as pinholes and voids while spraying and immediately inspect the work after completion. **Back brushing or back rolling eliminates most application errors and is highly recommended.** When back brushing does not present the desired appearance, spray to nearly the desired thickness, back brush, and then make another pass (back spray).

RECOMMENDED AIRLESS SPRAYER SPECIFICATIONS

Minimum tip support:	.021
Operating pressure:	3000-3300 PSI
Flow rate:	.75 GPM

Heavy duty airless sprayers that support larger tips are more suitable for thick viscosity coatings. It is important that the sprayer meets the recommended specifications to allow free flow of the thick coating. The use of an undersized sprayer may sputter or cause uneven application.

WARNING! CONTINUOUS USE OF AN UNDERSIZED SPRAY UNIT CREATES EXCESIVE HEAT BUILD-UP THAT MAY BURN OUT BEARINGS AND DAMAGE THE MOTOR.