



# PRODUCT DATA

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## ENVIRONMENTALLY SAFE LACQUER E-S-L WATER-BORNE LACQUER

PRODUCT SERIES: 119-11X

### PRODUCT DESCRIPTION

Environmentally Safe Lacquers are waterborne clear Acrylic Lacquer Sealers/Finishes that have an extremely high solid volume (double the standards of solvent base lacquers), excellent color clarity and color retention, and possess all the performance characteristics of a conventional lacquer, but in a water medium. Additionally, Environmentally Safe Lacquers quickly dry to hard, durable, water white, low odor, protective coatings suitable for environments where solvent odors cannot be tolerated.

### INTENDED USE

Environmentally Safe Lacquers (E.S.L.) Sealers/Finishes are designed to be used in tandem with Simpson Coatings Environmentally Safe Stain (E.S.S.) to obtain the ultimate Waterborne Lacquer Finish System, suitable for interior and sheltered exterior wood surfaces such as **fine furniture, cabinetry, exterior doors, door trim, paneling and any ornamental wood fixtures**. These products are clearly the best lacquer finishes over **natural finish light woods, white stains, and lightly colored stains**.

E-S-L Waterborne Lacquers are available in a sanding sealer and four different gloss finishes, and are packaged in five gallon and one gallon containers.

**102-111**  
Sanding Sealer

**102-112**  
Gloss

**102-113**  
Semi-Gloss

**102-117**  
Satin

**102-114**  
Flat

### SURFACE PREPARATION

#### 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 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](http://www.epa.gov/lead).

### ALL SURFACES

Must be clean, dry and free of dust, dirt, oil, grease, wax or any contamination that would adversely affect the adhesion or performance of this coating. Remove all oil, dirt and other contaminants by cleaning with a V.O.C. compliant commercial cleaner/degreaser. Rinse thoroughly and allow the surface to dry.

### ALL MILDEWED SURFACES

Existing mildew should be removed by washing the affected areas with a 3:1 solution of water and chlorine bleach or reliable commercial mildewcide. Keep applying until all discoloration is removed. Rinse thoroughly and allow surface to dry before coating.

LIMITED WARRANTY: The statements on this bulletin product label, or by any of our agents concerning these materials are given for information only. They are believed to be true and accurate and intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control. The Simpson Coatings Group does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR Fitness for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Simpson Coatings quality control standards. Any liability whatsoever of Simpson Coatings Group to the buyer or user of this product is limited to the purchaser's cost of the product itself.

119-11X E-S- L Finish continued . . . . .

**SURFACE PREPARATION continued . . . .**

## **NEW SURFACES**

### **NEW WOOD SURFACES**

Where appropriate, sand the surface smoothly with 180 grit or finer sandpaper prior to staining or sealing. Dust and sand residue should be removed with a clean cotton cloth or vacuumed prior to coating with Simpson Coatings Lacquer Stains or Lacquer Sealers. Apply one coat of Simpson Coatings Environmentally Safe Stains (E.S.S.) #119-15X without thinning, allowing 3 to 5 minutes surface setting time for the Lacquer Stain to uniformly develop itself. Allow 30 to 45 minutes drying time before recoating with Simpson Coatings E.S.L. Sanding Sealer # 119-111.

## **PREVIOUSLY COATED SURFACES**

### **ALL PREVIOUSLY COATED SURFACES**

Clean thoroughly as directed for all surfaces. Remove all loose peeling coatings and chalk oxidation by sanding. Glossy surfaces should be scuffed/sanded for maximum adhesion. For previously coated surfaces, a test patch of The Simpson Coatings Lacquer Sealer/Finish is recommended. If lifting or wrinkling occurs, refrain from using the Lacquer system. Surfaces requiring complete restoration must have the finish removed by either power sanding or the use of a paint/varnish remover, then treated as a new surface.

### **PREVIOUSLY COATED WOOD SURFACES**

Clean thoroughly as directed above for all previously coated surfaces.

## **APPLICATION**

Estimation of practical coverage of this product can be variable and is completely dependent on application technique i.e. (determine the amount of wet film thickness application to achieve dry film thickness) and the porosity of the substrate.

Drying time and curing time can be adversely affected by extreme high/low substrate and atmospheric temperature variance, along with extreme high/low humidity. Apply when air, product and surface temperatures are between 60 °F – 90 °F, the relative humidity is no greater than 85%, and surface is at least 5 °F above the dew point.

Do not shake or agitate the container. This will create excessive air entrapment in the coating material resulting in a propensity to blister and pinhole. STIR the product thoroughly before and during application, keeping the product dispersed for uniform consistency in the finish coat.

Simpson Coatings E.S.L. Lacquer Sealers/Finishes are designed for use over Simpson Coatings E.S. Stains. If other manufacturer's conventional oil stains or other types of stains, glazes, and toners are used, these products must be thoroughly dry/cured per the manufacturer's recommendation before applying the Simpson Coatings E.S.L. Lacquer Sealers/Finishes.

### **WOOD SURFACES**

Apply Simpson Coatings E.S.L. Lacquer Sanding Sealer and Finishes with Professional Airless, Conventional, or HVLP Spray Technology. Apply one coat of Simpson Coatings E.S.L. Sanding Sealer #119-111 @ 2.5 to 3.7 mils wet to achieve 0.8 to 1.2 mils dry film thickness, allowing 45 to 60 minutes dry time to recoat. Inspect surface for any raised fibers or imperfections. Sand lightly imperfect areas. Apply first coat of Simpson Coatings E-S-L Lacquer Finishes at 2.5 to 3.8 mils wet to achieve 0.8 to 1.2 mils dry film thickness. Allow 45 to 60 minutes dry time to recoat. Repeat recoat application as necessary to achieve desired build and finish. Allow the final coat of the Lacquer Finish to dry 16 to 24 hours for light traffic use, a full 24 to 36 hours cure time for heavy traffic use.

119-111 E-S-L Finish continued . . . . .

#### THINNING/CLEAN-UP

##### **AIR ATOMIZED/AIRLESS SPRAY:**

Use approximately ½ pint of water to one gallon of lacquer finishes. Avoid over thinning these products. This can adversely affect film building properties and drying times.

##### **CLEAN-UP**

Use soap and warm water for cleaning equipment.

#### EQUIPMENT RECOMMENDATIONS

##### **BRUSH/ROLLER**

Not Recommended. Spray application only.

##### **SPRAY**

E-S-L Lacquer Sealers/Finishes can be applied by Professional Airless, Conventional or HVLP Spray Technology.

## 119-11X ENVIRONMENTALLY SAFE LACQUER Technical Data/Physical Properties

**Resin Type:** Acrylic  
**Solvents:** Water, Glycol Ethers, Alcohols  
**Coatings V.O.C.** 235 grams per liter

PRODUCT	ANALYSIS				PRODUCT COVERAGE					
	% Solids by weight	% Solids by volume	Gloss	Viscosity	Wt. Per Gallon	Recommended Dry Film Thickness	Recommended Wet Film Thickness	Estimated Practical Coverage	Practical Coverage (assume 15% material loss)	Theoretical Coverage @ 1 mil D.F.T.
119-111 E-S-L Sanding Sealer	35.8	32.6	15 max @ 60°	23-27 Zahn 2 @ 77	8.6	0.8-1.2 mils	2.5-3.7 mils	520 sq. ft.	445 sq. ft.	520 sq. ft.
119-112 E-S-L Gloss Lacquer	35.0	32.0	80 + @ 60°	35-40 Zahn 2 @ 77	8.6	0.8-1.2 mils	2.5-3.7 mils	515 sq. ft. per gallon	435 sq. ft.	515 sq. ft.
119-113 E-S-L Semi-Gloss Lacquer	35.7	32.5	40-60 @ 60°	35-40 Zahn 2 @ 77	8.6	0.8-1.2 mils	2.5-3.7 mils	520 sq. ft. per gallon	445 sq. ft.	520 sq. ft.
119-114 E-S-L Flat Lacquer	35.3	31.5	15 max @ 60°	35-40 Zahn 2 @ 77	8.7	0.8-1.2 mils	2.5-3.8 mils	500 sq. ft. per gallon	430 sq. ft.	500 sq. ft.
119-117 E-S-L Satin Lacquer	35.0	31.5	21-27 @ 60°	35-40 Zahn 2 @ 77	8.7	0.8-1.2 mils	2.5-3.7 mils	500 sq. ft. per gallon	430 sq. ft.	500 sq. ft.

**Dry times @ 77° F and 50% R.H.**      Tack Free: 20-30 Minutes      Handle: 30-45 Minutes      Sand/Recoat: 45-60 Minutes      Full Dry/Cure: 16-24 Hours

**Special Instructions** :      **Proposition 65 Warning**

**WARNING: THIS PRODUCTS CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.**

**TECHNICAL SERVICE:** Technical Services are available through Simpson Coatings Technical Service Support at 1-800-877-5997

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