



# PRODUCT DATA

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## 680 HIGH SOLID ALKYD LACQUER "SOLVENT BASE"

PRODUCT CODE: 102 – 14X

PRODUCT DESCRIPTION: High Solids Alkyd Lacquer Sealers/Finishes are designed for professional application utilizing either conventional or airless spray equipment with line heaters. These products are formulated with extremely high solid contents for an exceedingly high build finish that is "least susceptible" to blushing, alcohol/heat resistant, strong water resistance and is highly recommended for use in coastal or high humidity environments.

INTENDED USE: High Solids Alkyd Lacquers are used over **interior wood substrates such as cabinets, paneling, doors where a higher, tougher build finish is needed.**

Available in a Sanding Sealer and four different Gloss Finishes, High Solids Alkyd Lacquers are packaged in 5 gallon and 1 gallon containers.

102 – 141  
Sanding Sealer

102 – 142  
Gloss

102 – 143  
Semi – Gloss

102 – 147  
Satin

102 – 144  
Flat

**NOTE:**

High Solids Alkyd Lacquers are extremely amber in tone and can darken wood tone and stains considerably. Close scrutiny in stain color selection should be taken when using High Solids Alkyd Lacquers. These Sealers/Finishes are not recommended for use over White, Light Colored Wood Stains, or Light Raw Woods.

### 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 commercial cleaner/degreaser. Rinse thoroughly and allow to dry.

## 102 – 14X 680 HIGH SOLIDS ALKYD LACQUER continued . . . . .

### SURFACE PREPARATION continued . . . . .

#### 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 recoating.

### 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 Sanding Sealer #102-142. Apply one coat of Simpson Coatings Lacquer Stain/Woodtone Sealers without thinning, allowing 3 to 5 minutes surface setting time for product to uniformly develop itself. Allow 30 to 45 minutes drying time before recoating with Simpson Coatings High Solids Lacquer Sanding Sealer #102-142.

### PREVIOUSLY COATED SURFACES

#### ALL PREVIOUSLY COATED SURFACES:

Clean thoroughly as directed for all surfaces. Remove all loose peeling coatings and chalk oxidation by sanding or pressure washing. Glossy surfaces should be dulled by sanding for maximum adhesion. For previously coated surfaces, a test patch of the Simpson Coatings High Solids Alkyd Lacquer Finish is recommended. If lifting or wrinkling occurs, refrain from using the High Solids Alkyd Lacquer system. Surfaces requiring complete restoration must have the finish removed by either power sanding or 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 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 variances, 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 High Solids Alkyd Lacquer Sealers/Finishes are designed for use over Simpson Coatings Lacquer Base Stains/Wood Tone Sealers. If conventional oil stains or other type of stains are used, the stain must be thoroughly dry/cured per stain manufacturer's recommendation before applying High Solids Alkyd Lacquer Sealers/Finishes.**

## 102 – 14X 680 HIGH SOLIDS ALKYD LACQUER continued . . . . .

### APPLICATION continued . . . . .

#### WOOD SURFACES:

Apply Simpson Coatings High Solids Alkyd Clear Lacquer with Professional Airless, Conventional or HVLP Spray Technology. Apply one coat Simpson High Solids Alkyd Lacquer Sanding Sealer #102-142 at 2.7 to 4.3 mils wet to achieve 0.5 to 0.8 mils dry film thickness, allowing 1 to 2 hours dry time to recoat. Inspect surface for any raised fibers or imperfections. Sand lightly any imperfect areas. Apply first coat of Simpson Coatings High Solids #102-14X Lacquer Finishes at 2.2 to 3.8 mils wet to achieve 0.5 to 0.8 mils dry film thickness. Allow 30 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.

#### PREVIOUSLY COATED SURFACES:

As directed before in surface preparation, a test patch of the High Solids Alkyd Lacquer Finish is recommended. If no lifting occurs, apply two coats of High Solids Alkyd Finish #102 – 14X at 0.5 to 0.8 mils dry film thickness. Allow 30 to 60 minutes dry time to recoat; a 16 to 24 hour dry time must be allowed for light traffic use, a full 24 to 36 hour cure time is required for heavy traffic use.

### THINNING/CLEAN – UP

#### AIR ATOMIZED/AIRLESS SPRAY:

***DO NOT THIN THESE PRODUCTS. These products are ready-to-apply as packaged. Thinning these products can adversely affect film building properties, dry/cure times, and volatile organic compound (V.O.C.) emissions. Please review the U.S. E.P.A. National Rule and your Local Air Quality Management Districts Rules and Regulations regarding V.O.C. emissions and Clean Up Products Regulations for Architectural and Industrial Maintenance Coatings.***

#### CLEAN – UP:

Use Simpson Coatings Acetone #304–013 for cleaning Application Tools and Spray Equipment only! **EXCEPT AS RESTRICTED BY YOUR LOCAL AIR QUALITY MANAGEMENT DISTRICT.**

### EQUIPMENT RECOMMENDATIONS

#### BRUSH/ROLLER:

Not recommended.

#### SPRAY:

High Solids Alkyd Clear Lacquers can be applied by either Professional Airless, Conventional or HVLP Spray Technology.

# 102-14X 680 High Solid Alkyd Lacquer "Solvent Base" Technical Data/Physical Properties

**Resin Type:** Alkyd Nitrocellulose Lacquer  
**Solvents:** Alcohols, Aliphatic & Aromatic Hydrocarbons, Esters, Glycol Ethers & Ketones  
**Coatings V.O.C. < 680 G/L**

PRODUCT	ANALYSIS					PRODUCT COVERAGE				
	Pigment % by weight	% Solids by weight	% Solids by volume	Gloss	Viscosity	Wt. Per Gallon	Recommended Dry Film Thickness	Recommended Wet Film Thickness	Practical Coverage (assume 15% material loss)	Theoretical Coverage @ 1 mil D.F.T.
102-141 680 High Solids Alkyd Gloss Lacquer		29.3-31.3%	22.6-24.6%	80+	25-30 Sec #4 Ford	7.2-7.8	0.5-0.75 mils	2.2-3.8 mils	230-300sq. ft.	275-325 sq. ft.
102-142 680 High Solids Alkyd Sanding Sealer Lacquer		22.8-24.8%	16.4-18.4%	Flat	25-30 Sec #4 Ford	7.0-7.6	0.5-0.75 mils	2.2-3.8 mils	230-300 sq. ft.	275-325 sq. ft.
102-143 680 High Solids Alkyd Semi-Gloss Lacquer		26.0-28.0%	19.0-21.0%	40-60	25-30 Sec #4 Ford	7.1-7.7	0.5-0.75 mils	2.2-3.8 mils	230-300 sq. ft.	275-325 sq. ft.
102-144 680 High Solids Alkyd Flat Lacquer		22.0-24.0%	16.0-18.0%	Flat	25-30 Sec #4 Ford	7.1-7.7	0.5-0.75 mils	2.2-3.8 mils	230-300 sq. ft.	275-325 sq. ft.
102-147 680 High Solids Alkyd Lacquer		17.5-19.5%	13.0-15.0%	21-27	25-30 Sec #4 Ford	7.0-7.6	0.5-0.75 mils	2.2-3.8 mils	230-300 sq. ft.	275-325 sq. ft.

**Dry times @ 77° F and 50% R.H.**

Tack Free: 15-20 Minutes

Handle: 20-30 Minutes

Sand/Recoat: 30-60 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

**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.