



PRODUCT DATA

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MAR - PROOF 680 PRECATALYZED LACQUERS "SOLVENT BASE"

PRODUCT CODE: 102 - 19X

PRODUCT DESCRIPTION: Mar - Proof 680 Precatalyzed Clear Lacquers are extremely durable single component self - sealing, modified nitrocellulose finishes that meet or exceed the rigid performance standards of the National Kitchen Cabinet Association (N.K.C.A.). Using these Lacquer products in tandem with Simpson Coatings non-stearate Clear Vinyl Sanding Sealer #103-111C or Single Component Vinyl Sealer #103-881, clearly provides the ultimate moisture resistant wood finishing systems that have been specifically designed with an exceptional level of endurance and resistance to harsh chemicals/solvents, abrasion and alkali.

INTENDED USE: Mar - Proof 680 Precatalyzed Clear Lacquers are formulated for use on all types of **interior wood products** such as **kitchen cabinets, furniture, mill work, doors, decorative molding and paneling** or anywhere a hard abrasion and moisture resistant finish is desired. Mar - Proof 680 Precatalyzed Clear Lacquers are available in four different Gloss Finishes, packaged in five gallon and one gallon containers.

102 - 192 Gloss	102 - 193 Semi - Gloss	102 - 197 Satin	102 - 194 Flat
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NOTE: Simpson Coatings Mar - Proof 680 Precatalyzed Clear Lacquer Finishes are self sealing finishes and are not recommended for use over conventional Stearate Sanding Sealers/Finishes or over Whites, Solid Pastel Colors, or Light/Pastel Wood Stains.

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.

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 non-V.O.C. regulated commercial cleaner/degreaser. Rinse thoroughly and allow the surface to completely dry.

102 – 19X Mar-Proof 680 Precatalyzed 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 applying the Mar – Proof 680 Precatalyzed Lacquer Finishes #102–19X.

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 Stains/Woodtone Sealers or Vinyl Sanding Sealers. **Do not use tack rags to remove dust and sand residue from the substrate.** Apply one coat of Simpson Coatings Stains /Woodtone Sealers without thinning, allowing the surface setting time for the Stain/Woodtone Sealer to uniformly develop itself. Allow 30 to 45 minutes drying time before applying the Simpson Coatings Mar – Proof 680 Precatalyzed Clear Lacquers #102–19X. Apply a wet cross coat of the Mar – Proof 680 Precatalyzed Clear Lacquers #102–19X as a seal coat allowing 30 to 60 minutes dry time between each coat.

NOTE: For those wood substrates that are more opened grain in texture, have soft grain porosity or for increasing moisture resistance in the finish, it is recommended to apply a minimum one coat of Simpson Coatings Vinyl Sanding Sealer #103-111, catalyzed, (4oz. of Vinyl Sanding Sealer Catalyst #103–111B to one gallon of Vinyl Sanding Sealer #103–111A) or the Single Component Vinyl Sealer #103–881 as a seal coat, allowing 30 to 60 minutes dry time prior to sanding.

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. All surfaces that have sheen should be sanded to a dull finish to insure maximum adhesion. All previously coated surfaces must be coated with a **Non–Stearated Clear Sanding Sealer for those surfaces that will be coated with the Mar – Proof 680 Clear Precatalyzed Lacquer Finishes i.e., (#103–111C Clear Vinyl Sanding Sealer or 550 Single Component Vinyl Sanding Sealer #103–881).** A test patch of these products over the previous coating is recommended. If lifting or wrinkling occurs, refrain from using these finishing systems. Surfaces requiring complete restoration must have the finish removed by either power sanding or the use of a paint/varnish remover, then treated as new surfaces.

PREVIOUSLY COATED WOOD SURFACES: Clean thoroughly as directed above for 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.

102 – 19X Mar-Proof 680 Precatalyzed Lacquer continued

APPLICATION continued

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 Mar – Proof 680 Precatalyzed Clear Lacquers are designed for use over Simpson Coatings Stains/Wood Tone Sealers. If other manufacturer's conventional oil stains or other type of stains, glazes, toners are used, these products must be thoroughly dry/cured per the manufacturer's recommendation before applying the Mar – Proof 680 Precatalyzed Clear Lacquer Finishes.

Note: DO NOT EXCEED 2 coats of the Mar– Proof 680 Precatalyzed Clear Lacquer Finish @ 2.4 to 3.8 mils wet to achieve 0.5 to 0.75 mils dry film thickness over one seal coat.

WOOD SURFACES: Apply Simpson Coatings Mar – Proof 680 Precatalyzed Clear Lacquer with Professional Airless, Conventional, or HVLP Spray Technology. Apply one coat Simpson Coatings Mar – Proof 680 Precatalyzed Clear Lacquer #102–19X as a seal coat at 2.4 to 3.8 mils wet to achieve 0.5 to 0.75 mils dry film thickness, allowing 30 to 60 minutes dry time to sand/recoat. Inspect surface for any raised fibers or imperfections. Sand lightly any imperfect areas. Apply second coat allowing 10 to 12 hours dry time for light traffic use, a full 24 to 48 hours cure time for heavy traffic use.

PREVIOUSLY COATED SURFACES: As directed in surface preparation, a test patch of the Mar – Proof 680 Precatalyzed Clear Lacquer Finish is recommended. If no lifting occurs, apply two coats of Mar – Proof 680 Precatalyzed Clear Lacquer Finish #102–19X at 0.5 to 0.75 mils dry film thickness. Allow 30 to 60 minutes dry time to recoat. A 10 to 12 hour dry time must be allowed for light traffic use, a full 24 to 48 hour cure time is required for heavy traffic.

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 application only.

SPRAY: Mar – Proof 680 Precatalyzed Clear Lacquers can be applied by Professional Conventional, Airless or HVLP Spray Technology.

SHELF LIFE/STORAGE: Mar – Proof 680 Precatalyzed Clear Lacquers should be limited in stock due to shelf life (**maximum of six months storage @ 77°F**).

02-19X Mar-Proof 680 Precatalyzed Lacquers "Solvent Base" Technical Data/Physical Properties

Resin Type: Alkyd Modified Nitrocellulose Lacquer
Solvents: Alcohols, Aliphatic & Aromatic Hydrocarbons, Acetates, 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.
102-192 Mar-Proof 680 Precatalyzed Gloss Lacquer		25.0-27.0%	17.4-19.4%	80+	25-30 Sec #4 Ford	7.1-7.7	0.5-0.75 mils	2.2-3.8 mils	230-300sq. ft.	275-325 sq. ft.
102-193 Mar-Proof 680 Precatalyzed Semi-Gloss Lacquer		25.0-27.0%	17.3-19.3%	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.
102-194 Mar-Proof 680 Precatalyzed Flat Lacquer		24.8-26.8%	16.4-18.4%	15 Max	25-30 Sec #4 Ford	7.3-7.9	0.5-0.75 mils	2.2-3.8 mils	230-300 sq. ft.	275-325 sq. ft.
102-197 Mar-Proof 680 Precatalyzed Satin Lacquer		21.7-23.7%	14.9-16.9%	21-27	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.

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: 24-32 Hours

Special Instructions: Do not apply more than 2 coats over the seal coat or cracking may occur.

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.