

CrystalVar™ 680 Sealer

WATER-CLEAR CONVERSION VARNISH SEALER

Product Code: **310761**

CrystalVar™ 680 Sealer is a water-clear, two-part conversion varnish sanding sealer ideal for interior wood cabinetry where a flawless finish is required.

Ideal For

- Kitchen cabinets
- Bathroom cabinets
- Wood placed in high moisture areas
- Residential table and bar tops

- Exceeds KCMA performance tests
- AIM compliant 550 g/l VOC
- NESHAP compliant—JJ (furniture)
- NESHAP compliant—QQQQ (doors & windows)

Performance Benefits

- Water Clear
- Non-yellowing
- Tintable
- Excellent water and chemical resistance
- Ready to spray
- 24 hour pot life
- Excellent flow and leveling
- High Build
- Excellent sanding properties
- Super-Low HAP

APPLICATION DATA

SURFACE PREPARATION: “White sand” wood with maximum 150 grit aluminum oxide sandpaper. Remove all sanding dust. Keep free of dirt, grease, silicone oils, lubricants and other contaminates.

APPLICATION EQUIPMENT: This product is designed for spray application through all types of equipment. Mixing or pumping equipment that is in constant contact with Conversion Varnish should be constructed of stainless steel or other anti-corrosive material. Recommended settings below are with trigger pulled.

Airless	No thinning required. Spray at 1000 or 1200 psi 411 or 513 tip
Air Assist	No thinning required. Spray at 700 to 900 psi fluid pressure 10-12 psi air cap 411 or 513 tip
HVLP	No thinning required. Spray at 28 psi through a 1.4 fluid nozzle

THINNING: This product is designed to spray at package viscosity with most application equipment. Thinning requirements may vary with changes in temperature and spray room conditions. If thinning is desired, use 650870 Lacquer Thinner, 652081 VOC Exempt Lacquer Thinner, 652210 No-HAP Lacquer Thinner, or Acetone.

Note: Thinning will reduce film build and may increase VOCs or HAPs, unless using VOC exempt or HAP-free solvents.

AGITATION: This product must be kept under slow, constant agitation, to ensure proper mixing.

CLEAN UP: Use lacquer thinner compliant with local air quality rules and regulations.

FINISHING SYSTEM

MIXING DIRECTIONS: Add 3% (4 fluid ounce) of Rudd 03-143 Catalyst per gallon. Stir well during and after adding catalyst.

POT LIFE: 1 day (24 hours) @ 65-70°F.

STAIN: When staining wood, use Rudd Colortools™ Dye Stains, Colortools™ Spray Only Stain, or Colortools™ Wiping Stain.

SEAL: Apply one coat (3-5 mils wet) of CrystalVar 680 Sealer. Allow to dry 30 minutes*. Sand with 220/320 grit silicon carbide sandpaper before finishing.

FINISH: Apply one or two coats (3-5 mils wet) of CrystalVar 550 or 680 Clear Conversion Varnish finish. Allow 40 minutes dry time between coats. Sand between all coats with 220/320 grit silicon carbide sandpaper.

If desired, additional coats may be applied up to a total dry film of 5.0 dry mils.

*Dry time will vary with film thickness, temperature, humidity & air flow.

SAFETY PRECAUTIONS

Avoid breathing vapors, use a NIOSH approved cartridge respirator. Use pre-filters to avoid breathing spray particles or sanding dust.

Flammable Liquid and Vapor: Keep away from heat, sparks and flame. Ensure adequate ventilation during use. Clean up spills with non-sparking tools and inert absorbent material. Store solvent and lacquer soaked rags and filters in water-filled, closed containers prior to disposal. Dispose of in safe, approved manner.

Read Material Safety Data Sheet and label before using.

SPECIFICATIONS	
Coverage	435 square feet per gallon @ 1 mil dry film
Viscosity	20-25 Seconds (#2 Zahn @ 75°F)
Sag Resistance	5 mils vertical @ 65-70°F
Solids	34.5% by weight 2.65 lbs per gallon
VOC (Volatile Organic Compounds)	Calculated: 584 g/l (4.88 lb/gal) Catalyzed: 584 g/l (4.88 lb/gal)
HAP (Hazardous Air Pollutants)	Pounds HAP per Gallon: 0.054 Pounds HAP per Pound Solids: < 0.8 (actual 0.02) Pounds HAP per Volume Solids: < 0.48 (actual 0.199)
Dry to Sand	30 minutes @ 65-70°F
CAUTION: Thinning will reduce film build and may increase VOCs and HAPs unless using VOC Exempt and/or HAP-free thinner.	

APPLICATION PRECAUTIONS

Do not use alkaline based products to clean surfaces finished with the CrystalVar Water-Clear Conversion Varnish system.

This product MUST be sanded between all coats to ensure proper adhesion. This product MUST be re-coated within 8 hours of being sanded.

May be tinted with Colortools™ or 844 colorants. Do not exceed 8 fl. oz. of colorant per gallon of coating.

This product is not recommend for exterior use.

Finish, substrate and curing temperatures should remain above 60°F, extremes of temperature and humidity may affect product performance.

Total film build of system must not exceed 5.0 dry mils.

This product has been tested on a limited number of substrates and over a limited number of coatings. The user is responsible for testing suitability and performance for their specific application.

For best results, use within 12 months of manufactured date.

Designed for professional use with spray application only.

Shipping & Storage Information

Flash Point: -4°F Pensky-Martin

OSHA Flammability Class: Flammable Liquid—Class IB

DOT Class: Paint, 3, UN 1263, PG II



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