

CONVERSION VARNISH

CrystalVar™ 680 VOC

CLEAR WATER CLEAR CONVERSION VARNISH

Product Code: **310661**

CrystalVar™ 680 VOC Clear Conversion Varnish is a water clear, two-part conversion varnish 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 at 680 g/l VOC
- NESHAP compliant—JJ (furniture)
- NESHAP compliant—QQQQ (doors & windows)

Benefits

- Water Clear
- Non-yellowing
- Exceptional abrasion resistance
- Excellent water and chemical resistance
- 24 hour pot life
- Excellent flow and leveling
- High build
- Excellent sanding properties
- May be used as a self-seal system

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 contaminants.

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

THINNING: This product is designed for spray application at package viscosity with all equipment. If thinning, use Rudd 650870 Premium Lacquer Thinner, Rudd 651393 No-HAP Thinner, or Acetone. For additional open time use Rudd 650921 Retarder as needed.

Caution: Thinning with solvents will reduce film build and increase VOCs (unless using Acetone). Note: Thinning requirements may vary with changes in temperature and spray room conditions.

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

CLEAN UP: Use lacquer thinner.

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 Stain, ColorTools™ Spray Only Stain or ColorTools™ Wiping Stain.

SEAL: Apply one coat (3-4 mils wet) of CrystalVar 680 VOC Clear Conversion Varnish as its own sealer or one coat (3-4 mils wet) of 310645 CrystalVar 550 VOC Clear Sealer. Allow to dry 25-35 minutes*. Sand with 220/320 grit silicon carbide sandpaper before finishing.

FINISH: Apply one or two coats (3-4 mils wet) of CrystalVar 680 VOC Clear Conversion Varnish. 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 times may vary with film thickness, temperature, humidity, and air movement.

SAFETY PRECAUTIONS

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

Flammable Liquid: Keep away from heat sparks and flame. Assure adequate ventilation during use. Read Safety Data Sheet and label before using.

AVAILABLE SHEENS*

Gloss	High Semi-Gloss	Semi-Gloss	Satin	Flat
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KCMA FINISH TEST

Vinegar	No visual effect
Lemon Juice	No visual effect
Orange Juice	No visual effect
Grape Juice	No visual effect
Catsup	No visual effect
Olive Oil	No visual effect
100 Proof Alcohol	No visual effect
Coffee	No visual effect
MEK Resistance	100+ single rubs showed no removal of finish
Water Ring	Slight marking at 190°F after 30 minutes
Edge Soak	Passed 24hr KCMA test with no softening, discoloration or film defects

*Call for current Stock Sheens and Package Sizes.

SPECIFICATIONS

Coverage	371 square feet per gallon @ 1 mil dry film
Viscosity	22–28 Seconds (#2 Zahn @ 75°F)
Sag Resistance	4 mils vertical @ 65–70°F
Solids*	28.9–30.8 % by weight 2.2–2.37 lbs per gallon
VOCs* (Volatile Organic Compounds)	Calculated: 5.09–5.2 lb/gal 611–620 g/l
HAPs* (Hazardous Air Pollutants)	Pounds HAP per Pounds Solids: 0.026–0.028
Dry to Sand	25 minutes @ 65–70°F
Block Free	24 hours @ 5 mils wet
*Variations depend on gloss CAUTION: Thinning will reduce film build and increase VOCs.	

APPLICATION PRECAUTIONS

- CrystalVar 680 VOC Clear Conversion Varnish may be used as a self seal system.
- Do not use alkaline based products to clean surfaces finished with CrystalVar 680 VOC Clear Conversion Varnish.
- This product MUST be sanded between all coats to ensure proper adhesion. This product MUST be re-coated within 8 hours of being sanded.
- 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.
- Designed for professional use and 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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