

CrystalVar™ 275 VOC

WATER CLEAR CONVERSION VARNISH

Product Code: 310610

CrystalVar™ 275 VOC Conversion Varnish is a water clear, two-part acid catalyzed 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
- California AIM compliant at 275 g/l VOC
- OTC Phase II compliant at 275 g/l VOC
- Utah AIM Compliant at 275 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
- 10 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 652081 VOC Exempt Lacquer Thinner or Acetone.

Caution: Thinning with solvents will reduce film build.

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 acetone or compliant lacquer clean-up solvent.

FINISHING SYSTEM

MIXING DIRECTIONS: Add 6 fluid ounces of Rudd 03-143 Catalyst per gallon. Stir well during and after adding catalyst.

POT LIFE: 10 hours @ 65–70°F.

STAIN: When staining wood, use Rudd ColorTools™ Low VOC Dye Stain, ColorTools™ Low VOC Spray Only Stain, or ColorTools™ 240 VOC Wiping Stain.

SEAL: Apply one coat (3-4 mils wet) of CrystalVar 275 VOC Clear Conversion Varnish as its own sealer, or one coat (3-4 mils wet) of 310607 CrystalVar 275 VOC Sealer. Allow to dry 35 minutes*. Sand with 220/320 grit silicon carbide sandpaper before finishing.

FINISH: Apply one or two coats (3-4 mils wet) of CrystalVar 275 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 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: Keep away from heat, sparks and flame. Ensure adequate ventilation during use.

Read Material 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	200+ single rubs showed no removal of finish
Edge Soak	Passed 24hr KCMA test with no softening, discoloration or film defects

SPECIFICATIONS

Coverage	600 square feet per gallon @ 1 mil dry film
Viscosity	17–21 Seconds (#2 Zahn @ 75 °F)
Sag Resistance	4 mils vertical @ 65–70 °F
Solids*	41.4–44.5% by weight 3.56–3.92 lbs per gallon
VOCs* (Volatile Organic Compounds)	Calculated: 1.6–1.7 lb/gal 198–209 g/l
HAPs* (Hazardous Air Pollutants)	Pounds HAP per Pounds Solids: 0.025–0.028
Dry to Sand	35-40 minutes @ 65–70 °F
Block Free	24 hours
*Variations depend on gloss CAUTION: Thinning will reduce film build.	

*Call for current Stock Sheens and Package Sizes.

APPLICATION PRECAUTIONS

- CrystalVar™ 275 VOC Clear Conversion Varnish may be used as a self seal system.
- Do not use as a topcoat over lacquer sanding sealers, undercoaters or primers. Use with 310607 CrystalVar 275 Sealer or self-seal.
- Do not use alkaline based products to clean surfaces finished with CrystalVar 275 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 finishing 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.

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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