

CrystalVar™ 550 VOC

WATER CLEAR CONVERSION VARNISH

Product Code: 310599

CrystalVar™ 550 VOC 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 550 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 550 VOC Clear Conversion Varnish as its own sealer or one coat (3-4 mils wet) of 310645 CrystalVar 550 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 550 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. Ensure adequate ventilation during use.

Read Material Safety Data Sheet and label before using.

AVAILABLE SHEENS*

| | | | | |
|-------|-----------------|------------|-------|------|
| Gloss | High Semi-Gloss | Semi-Gloss | Satin | Flat |
|-------|-----------------|------------|-------|------|

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 |

SPECIFICATIONS

| | |
|--|--|
| Coverage | 441 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* | 34.7–37.4% by weight 2.68–2.96 lbs per gallon |
| VOCs* (Volatile Organic Compounds) | Calculated: 4.5–4.6 lb/gal 536–549 g/l |
| HAPs* (Hazardous Air Pollutants) | Pounds HAP per Pounds Solids: 0.01 - 0.015 |
| Dry to Sand | 35 minutes @ 65–70°F |
| Block Free | 24 hours @ 5 mils wet |
| *Variations depend on gloss CAUTION: Thinning will reduce film build and increase VOCs. | |

*Call for current Stock Sheens and Package Sizes.

APPLICATION PRECAUTIONS

- CrystalVar 550 VOC Clear Conversion Varnish may be used as a self seal system.
- Do not use alkaline based products to clean surfaces finished with CrystalVar 550 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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