

CrystalVar™ 275

WATER-CLEAR CONVERSION VARNISH

Product Code: **310610**

CrystalVar™ 275 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
AIM compliant 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
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 contaminants.

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. The recommended settings below are with the 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 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 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 (3-5 mils wet) of CrystalVar 275 as its own sealer, or one coat (3-5 mils wet) of 310607 CrystalVar 275 Sealer. Allow to dry 35 minutes*. Sand with 220/320 grit silicon carbide sandpaper before finishing.

FINISH: Apply one or two coats (3-5 mils wet) of CrystalVar 275. 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 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 container prior to disposal. Dispose in safe, approved manner.

Read Safety Data Sheet and label before using.

FINISH PERFORMANCE TESTING

KCMA	
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
Edge Soak	Passed 24 hr KCMA test with no softening, discoloration or film defects
Cold Check	Passed 20 cycles @ 5 mils dry film
OTHER	
MEK Resistance	200+ single rubs showed no removal of finish
Hot Water Ring	Passed at 190° F after 30 minutes
Pencil Hardness	Pass B
Mar Resistance	Excellent
Adhesion	Excellent

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
VOC* (Volatile Organic Compounds)	Calculated: 198-209 g/l (1.6-1.7 lb/gal) Catalyzed: 226-237 g/l (1.88-1.97 lb/gal)
HAP* (Hazardous Air Pollutants)	Pounds HAP per Gallons: 0.1007—0.1015 Pounds HAP per Pound Solids: < 0.8 (actual 0.0255—0.0285) Pounds HAP per Volume Solids: < 0.48 (actual 0.2518—0.2686)
Dry to Sand	35-40 minutes @ 65-70°F
Block Free	24 hours
*Variations depend on gloss. CAUTION: Thinning will reduce film build and may increase VOCs or HAPs, unless using VOC exempt or HAP-free solvents.	

*** Contact your Sales Representative for available stock sheens and package sizes.***

APPLICATION PRECAUTIONS

CrystalVar 275 may be used as a self seal system or with 310607 CrystalVar 275 Sanding Sealer.

Do not use as a topcoat over lacquer sanding sealers, undercoaters or primers.

Do not use alkaline based products to clean surfaces finished with CrystalVar 275.

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.

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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