Chemcraft®

A Great Finish is Only the Beginning

AkzoNobel

421-71XX CoVar® 275 Conversion Varnish Clear TC

Product Codes:
421-7110 Matte
421-7120 Low Gloss
421-7140 Satin
421-7160 Semi-Gloss
421-7190 High Gloss

Viscosity:	Zahn #2 signature cup 12-14 sec at 77°F
Flash Point:	-4°F (-20°C)
Density (lb/gal):	8.65
Solid (% by weight):	33%
Solid (% by volume):	29%
Shelf Life (months):	6

Product Description:

CoVar 275 is a two-component post-catalyzed Reactive Amino Coating (RAC). This product has been formulated to meet 275 g/l VOC regulations. CoVar 275 is a fast drying, good building product that shows excellent resistance to both chemicals and to physical wear. The coating has excellent leveling and a smooth even appearance, even on open-grain woods. CoVar 275 is supplied at a ready to spray viscosity. This coating will dry quickly and sand easily and can be used a self seal finish. Very low HAPs and very low VOC.

Special Recognition: Meets Kitchen Cabinet Manufacturer Association (KCMA) Standards.

Recommended: Architectural Woodwork Institute Conversion Varnish System (8th Ed).

Uses:

CoVar 275 is recommended for office and household furniture, kitchen cabinets, as well as many other high performance interior wood applications**.** CoVar 275 is designed for use on all types of solid wood and veneer meant for interior use.

Environmental Data (as supplied):	**VOC less exempt lb/gal:**	<1.09
	VOC lb/gal:	<0.38
	VOC less exempt g/l:	<130
	VOC g/l:	<46
	VOC lb/lb Solid:	<0.13
	VHAPs lb/lb Solid:	<0.01

Note:

See individual compliance sheets for specific data

Application Data:	**Suggested Uses:**	Wood Finish
	Mixing Ratio:	100 parts 421-71XX to 3.5 parts 873-1205
	Pot Life:	8 hours
	Application Viscosity:	Zahn #2 signature cup 12-14 seconds
	Reducer:	803-1325 or 803-1349
	Retarder:	800-5328
	Clean-up Solvent:	800-5500
	Recommended Wet Film:	3 – 5 mils
	Coverage:	Coverage is 472 sq. ft/gal at 1 mil dry and at 100% transfer efficiency. Coverage will vary depending on method of application or coating thickness.

Note:

The addition of these reducers or retarders could affect 275 VOC compliance.

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Directions for use:

Surface Preparation:

Substrate must be sanded using 120, 150 or 180 grit stearated paper prior to staining or coating. When sealing, the sealer coat should be sanded prior to being coated with 280/320 grit stearated paper. The sealer should be topcoated within eight hours of being sanded. This product is designed to be used as a self seal. When recoating, the previous coat of CoVar 275 must be sanded and the next coat applied within eight hours. CoVar 275 cannot be used on metal, old oil or cellulose lacquers. Stain systems used under acid catalyzed systems should be acid stable. AkzoNobel recommends using 825-39XX series stains or 824-50XX series waterborne stains.

General Information:

Agitate material before use. CoVar 275 must be agitated thoroughly at all times to ensure product consistency and consistent gloss. Always mix CoVar 275 while adding hardener and reducers in the recommended mixing ratios.

Apply at 3-5 mils wet on sanded substrate. Further coats may be applied after complete drying followed by sanding with 280/320 grit stearated paper. The second and subsequent coats must be applied the same day as the previous coat is sanded.

Maximum film build of CoVar 275 should not exceed 4 mils dry. Maximum film build of total coating system must not exceed 4 mils dry. Contact with metal surfaces should be avoided.

Please note that, as with any other amino-containing product, this material contains, and has the potential to emit, formaldehyde (CAS# 50-00-0). As per the US Department of Labor Standard 29 CFR 1910.1048 covering formaldehyde, section (d)(1)(i) states that “Each employer who has a workplace covered by this standard shall monitor employees to determine their exposure to formaldehyde.” Please refer to the OSHA web site at www.osha.gov for further information.

CoVar 275 must not be polluted with oil, varnish or the like and must not be sanded with steel wool between the coats. CoVar 275 must not be used and dried at temperatures below 64°F or relative humidity above 65%. During hardening the coating must not be exposed to ammonia vapors. Ammonia cleaners should not be used for cleaning the finished surface. This may accelerate discoloration.

THE CUSTOMER IS RESPONSIBLE FOR FOLLOWING THE RECOMMENDED APPLICATION PROCEDURES. FAILURE TO ADHERE TO THE RECOMMENDATIONS GIVEN IN THIS DATA SHEET WILL LIKELY RESULT IN UNSATISFACTORY FILM APPEARANCE OR FILM FAILURE. THE COMPLETE COATING SYSTEM SHOULD BE CHECKED FOR REQUIRED PROPERTIES PRIOR TO THE START-UP OF PRODUCTION.

Drying Times:

	Room Temperature (68°F)	Forced Drying Schedule (122°F)
Tack Free Time:	30 – 40 minutes	Flash off before entering oven
Dry to Sand:	60 - 90 minutes	30 – 60 minutes
Dry to Stack:	Overnight	3 – 4 hours

Note:

N/A

Dry times are greatly affected by film build, porosity of substrate, air movement as well as heat and humidity. Temperatures are based on actual board temperature. This may vary depending on length of time for boards to reach these temperatures. Minimum curing temperatures of 64°F/18°C must be maintained throughout the curing cycle to achieve the film integrity as stated in product features.

These products are designed for industrial use only. AkzoNobel views safety as a top priority. Please refer to Material Safety Data Sheet for information on the safe use of this product.

Akzo Nobel Coatings, Inc
1431 Progress Ave
High Point, NC 27260
336-841-5111

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