

431-52XX VARICURE® SELECT Pre-Cat Clear TC

Product codes:	431-5205 Flat	Viscosity	Zahn #2 signature cup 23 sec at 25° C
	431-5210 Matte		
	431-5220 Low Gloss		
	431-5235 Satin		
	431-5250 Semi-Gloss		
	431-5290 High Gloss		
	Flash Point:		-4°F (-20°C)
	Density (kg/l):		0.93
	Solid (% by weight):		31%
	Solid (% by volume):		24%
	Shelf Life (months):		6

Product Description:

VARICURE SELECT Clear Topcoat is a one-component high solids pre-catalyzed Reactive Amino Coating (RAC). This is a fast building pre-catalyzed RAC due to its high volume solids (24%). VARICURE SELECT Clear Topcoat demonstrates excellent moisture, household wear, household chemical, solvent and mar resistance. It exceeds the current Pre-Cat industry standards for chemical and moisture resistance - the type of performance you usually only find in higher performance technologies.

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

Recommended: Architectural Woodwork Institute (AWI). System 2.

Uses:

VARICURE SELECT Clear Topcoat is recommended for office and household furniture, kitchen cabinets, as well as many other interior wood applications.

Environmental Data (as supplied):	VOC less exempt lb/gal:	<5.17
	VOC lb/gal:	<4.60
	VOC less exempt g/l:	<620
	VOC g/l:	<550
	VOC lb/lb Solid:	<1.9
	VHAPs lb/lb Solid:	<0.50

Note:

N/A

Application Data

Suggested Uses:	Wood Finish
Mixing Ratio:	N/A
Pot Life:	N/A
Application Viscosity:	Zahn #2 signature cup 21 – 23 seconds
Reducer:	121-803 or 121-8020
Retarder:	800-5328 EEP
Clean-up Solvent:	Lacquer thinner
Recommended Wet Film:	3 – 5 mils
Coverage:	391 sq. ft./gal (9 m ² /l) at 1 mil dry and at 100% transfer efficiency. Coverage will vary depending on method of application or coating thickness.

Note:

N/A

Directions for use:

Surface Preparation:

Substrate must be sanded using 120, 150 or 180 grit stearated paper prior to staining or coating. Sealers, if used, should be sanded with 280/320 grit stearated paper prior to being coated. The sealer should be topcoated within eight hours of being sanded. When recoating, the previous coat of Varicure Select must be sanded and the next coat applied within eight hours. VARICURE SELECT Clear Topcoat cannot be used on metal, old oil or cellulose lacquers. Stain systems used under acid catalyzed systems should be acid stable. AkzoNobel recommends using 825-90XX or 825-91XX Promatch® C-Mix Stains.

General Information:

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

Apply at 3 – 5 mill 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. The maximum film build of VARICURE SELECT Clear Topcoat should not exceed 4 mils dry. This product is intended as a selfseal product; however, if a sealer is desired VARICURE SELECT Sealer 431-5201.

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

VARICURE SELECT Clear Topcoat must not be polluted with oil, varnish or the like and must not be sanded with steel wool between coats. VARICURE SELECT Clear Topcoat must not be used and dried at temperatures below 18°C or relative humidity above 65%. During hardening the VARICURE SELECT Clear Topcoat must not be exposed to ammonia vapors. Ammonia cleaners should not be used for cleaning the finished surface. This may accelerate discoloration.

This product does contain formaldehyde, but the quantity is below the reportable amount according to OSHA regulation 1910.1048.

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:	10 – 20 minutes	Flash off before entering oven
Dry to Sand:	45 - 60 minutes	15 – 20 minutes
Dry to Stack:	2 Hours	60 – 90 minutes

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.

Values shown are calculated estimates and should not be construed as product specifications. We cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and users assume all responsibility and liability for loss or damage arising from the use of our products whether used alone or a combination with other products. Use of unapproved or reclaimed solvent blends may reduce film properties and is not recommended.

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