

**Product Code:**

431-4601

**VISCOSITY:** Zahn #2 signature cup 19-22 sec at 77°F  
**FLASH POINT:** -4° F (-20°C)  
**DENSITY (lb/gal):** 7.8  
**SOLID (% by weight):** 21%  
**SOLID (% by volume):** 15%  
**SHELF LIFE (months):** 6

**Product Description:** Variseal is a one-component pre-catalyzed Reactive Amino Coating (RAC) designed to be used with the Varicure® system. It dries fast and sands easily to provide a smooth finish. Variseal is provided at a ready to use viscosity for ease of application.

Special Recognition: Meets Kitchen Cabinet Manufacturer Association (KCMA) Standards.  
 Recommended: Architectural Woodwork Institute (AWI). T.R.2.

**Uses:** Variseal is the recommended sealer for the Varicure® system and is intended for use on office and household furniture, kitchen cabinets, as well as many other interior wood applications.

**Environmental Data (as supplied):**

<b>VOC less exempt lb/gal:</b>	<5.9
<b>VOC lb/gal:</b>	<5.0
<b>VOC less exempt g/l:</b>	<708
<b>VOC g/l:</b>	<600
<b>VOC lb/lb Solid:</b>	<3.2
<b>VHAPs lb/lb Solid:</b>	<0.45

**Application Data:**

<b>SUGGESTED USES:</b>	Wood Finish
<b>MIXING RATIO:</b>	98 parts 431-4601, 2 parts 873-0870 (Pot Life 8 hours) 99.5 parts 431-4601, 0.5 parts 873-1205 (Pot Life 8 hours) 99 parts 431-4601, 1 parts 873-1244 (Pot Life 10 days)
<b>POT LIFE:</b>	See mixing ratio
<b>APPLICATION VISCOSITY:</b>	Zahn #2 signature cup 19-22 seconds
<b>REDUCER:</b>	803-1325
<b>RETARDER:</b>	800-5328
<b>CLEAN-UP SOLVENT:</b>	803-1298
<b>RECOMMENDED WET FILM:</b>	3 – 5 mils
<b>COVERAGE:</b>	241 sq ft/gal at 1 mil dry and at 100% transfer efficiency. Coverage will vary depending on method of application or coating thickness.

## Directions for Use

**Surface Preparation:** Substrate must be sanded using 120, 150 or 180 grit steartated paper prior to staining or coating. Stain systems used under acid catalyzed systems should be acid stable. AkzoNobel recommends using 825-90XX, 825-91XX Promatch® C-Mix Stains or 890-85XX Promatch Dye Stains.

**General Information:** Agitate material before use. Always mix Variseal while adding hardener and reducers in the recommended mixing ratios. Variseal must be agitated thoroughly at all times to ensure product consistency.

Apply one or two coats at 3 – 5 mill wet. The second coat must be applied the same day as the previous coat is sanded.

Variseal may be catalyzed to further enhance its durability. Contact your coating supplier for a recommendation.

Variseal must not be polluted with oil, varnish or the like and must not be sanded with steel wool between coats and before topcoating. Variseal 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 maximum film build of Variseal should not exceed 2 mils dry. Maximum film build of total coating system must not exceed 4 mils dry.

**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)
<b>Tack Free Time:</b>	10 – 15 minutes	Flash off before entering oven
<b>Dry to Sand:</b>	20 – 30 minutes	15 – 20 minutes
<b>Dry to Stack:</b>	2 Hours	60 – 90 minutes

Note: 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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