

**431-4602 Variseal® HS Pre-Cat Clear Sealer**

<b>Product codes:</b> 431-4602	<b>Viscosity</b> Zahn #2 signature cup 22 sec at 77°F
	<b>Flash Point:</b> -4°F (-20°C)
	<b>Density (lb/gal):</b> 7.8
	<b>Solid (% by weight):</b> 28%
	<b>Solid (% by volume):</b> 18%
	<b>Shelf Life (months):</b> 6

**Product Description:**

Variseal HS is a one-component, pre-catalyzed sealer designed for all types of woods for interior use. It has a rapid dry and sands easily to a smooth finish.

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

Recommended: Architectural Woodwork Institute (AWI). T.R.2.

**Uses:**

Variseal HS 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.

<b>Environmental Data (as supplied):</b>	<b>VOC less exempt lb/gal:</b> <5.50
	<b>VOC lb/gal:</b> <4.30
	<b>VOC less exempt g/l:</b>
	<b>VOC g/l:</b>
	<b>VOC lb/lb Solid:</b> <2.0
	<b>VHAPs lb/lb Solid:</b> <0.25

**Note:**

N/A

<b>Application Data</b>	<b>Suggested Uses:</b> All types of interior woods
	<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>Suggested Uses:</b> See mixing ratio
	<b>Application Viscosity:</b> Zahn #2 signature cup 18 - 24 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> 300 sq. ft./gal.

**Note:**

N/A

**Directions for use:**

**Surface Preparation:**

Wood substrate should be sanded with 120, 150 or 180 grit paper prior to staining or coating. Stain system under acid containing coatings 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 thoroughly before use. Variseal HS must be agitated thoroughly at all times to ensure product consistency. Apply one or two coats at 3-5 mils wet and allow 30-45 minutes to dry at 68°F prior to sanding and applying next coating. Sand with 280/320 grit paper before topcoating or recoating and ensure next coat is applied within eight hours of sanding. This product dries rapidly, powders very well and seals the substrate preparing it for the appropriate topcoat.

Variseal HS must not be polluted with oil, varnish or the like and must not be sanded with steel wool between the coats. Variseal HS must not be used nor dried at temperatures below 64°F (18°C) or relative air humidity above 65%. During hardening, the sealer 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 HS should not exceed 2 mils dry. Maximum film build of total coating system must not exceed 4 mils dry.

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:**

	<b>Room Temperature (20°C / 68°F)</b>	<b>Forced Drying Schedule (50°C / 122°F)</b>
<b>Tack Free Time:</b>	10 – 15 minutes	Flash off before entering oven
<b>Dry to Sand:</b>	30 – 45 minutes	1 – 2 hours
<b>Dry to Stack:</b>	15 – 20 minutes	20 – 30 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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