

## 421-63XX Chemlife® 24 Conversion Varnish Clear Topcoat

**Product Codes:** 421-6303 0° Ultra Flat  
 421-6310 10° Matte  
 421-6320 20° Low Gloss  
 421-6335 35° Satin  
 421-6350 50° Semi-Gloss  
 421-6390 90° High Gloss

**Viscosity:** Zahn #2 signature cup 26 sec at 25°  
**Flash Point:** 7°C  
**Density (Kg/L):** 0.96 ± 2% at 25°C  
**Solid (% by weight):** 39%  
**Solid (% by volume):** 31%  
**Shelf Life (months):** 12

### Product Description:

Chemlife 24 is a high quality varnish that delivers superior chemical resistance with ease of application. Due to its 24 hour pot-life, Chemlife 24 provides the customer with minimum waste resulting in lower production costs. It also provides superior vertical hang and excellent clarity.

Special recognition: Meets Kitchen Cabinet Manufacturer Association (KCMA) Standards Recommended: Meets Architectural Woodwork Institute (AWI) TR6 Performance standard for chemical and moisture resistance.

### Uses:

This product is recommended for kitchen cabinets, high build office or residential furniture as well as other interior wood applications.

**Environmental Data (as supplied):**

<b>VOC less exempt lb/gal:</b>	4.87
<b>VOC lb/gal:</b>	4.87
<b>VOC less exempt g/l:</b>	584
<b>VOC g/l:</b>	584
<b>VOC lb/lb Solid:</b>	1.56
<b>VHAPs lb/lb Solid:</b>	0.53

### Note:

See individual compliance sheets for specific data

<b>Application Data:</b>	<b>Suggested Uses:</b>	Spray
	<b>Mixing Ratio:</b>	10% 873-1251
	<b>Pot Life:</b>	24 hours
	<b>Application Viscosity:</b>	20-24 sec Zahn #2 at 25°C
	<b>Reducer:</b>	121-803 or 121-8020 if necessary
	<b>Retarder:</b>	800-5328 EEP (2-3% maximum)
	<b>Clean-up Solvent:</b>	Lacquer Thinner
	<b>Recommended Wet Film:</b>	3-4 wet mils
	<b>Coverage:</b>	12 m <sup>2</sup> /l (130 pi <sup>2</sup> /l) at 1 mil dry and at 100% transfer efficiency. Coverage will vary depending on method of application or coating thickness.

### Note:

N/A

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### Directions for use:

#### Surface Preparation:

Substrate must be sanded using 120 or 150 grit stearted paper prior to staining or coating. Sealers, if used, should be sanded with 240, 280 and 320 grit stearted paper prior to being coated. The substrate as well as the sealers should be topcoated within eight hours of being sanded. Chemlife 24 cannot be used on metal, old oil or cellulose lacquers. Stain system used under acid catalyzed systems should be acid stable.

#### General Information:

Catalyze and reduce the material as recommended. Chemlife 24 is applied in one to three coats on all kinds of wood meant for indoor use. Thorough sanding between the coats is a must for good adhesion. The second and subsequent coats must be applied the same day as the previous coat is sanded. Contact with metal surfaces should be avoided once the Chemlife 24 has been catalyzed. To ensure proper sheen, the catalyzed material should be agitated at all times. Total recommended film thickness must not exceed 4 mils dry.

Chemlife 24 demonstrates excellent resistance to marring, dry heat, moisture, household and office liquids, etc. When this product is used as its own sealer, its special formulation ensures excellent filling and easy sanding properties with superior holdout for subsequent coating. Chemlife 24 must not be polluted with oil and must not be sanded with steel wool between coats.

To obtain complete cure, Chemlife 24 must be applied at a temperature above 18°C and relative humidity below 65%. When drying, this product should not be exposed to ammonia vapors. Finished surface must not be cleaned with ammonia containing products. Always use containers and equipment made of plastic or stainless steel to avoid discoloration of the material due to oxidation.

421-63XX can be used as a self-seal or with following sealers: 401-004 catalyzed, 401-028 catalyzed, 421-6300, 432-1220 and 546-5192.

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:

	At 20°C (Minimum Required)	At 50°C (Minimum Required)
<b>Tack Free Time:</b>	15 minutes	Flash off before entering oven
<b>Dry to Sand:</b>	60 minutes	30 minutes
<b>Dry to Stack:</b>	Overnight	3 hours

#### Note:

N/A

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.

Akzo Nobel Wood Coatings Ltd.  
155 Rose Glen Road N  
Port Hope, ON L1A 3V6  
905-885-6388