

431-47XX E. S. Lacquer Elite II Pre-Cat Clear TC

Product codes:	431-4710 Matte	Viscosity	Zahn #2 signature cup 23 sec at 77°F
	431-4720 Low Gloss	Flash Point:	-4°F (-20°C)
	431-4735 Satin	Density (lb/gal):	7.6
	431-4750 Semi-Gloss	Solid (% by weight):	27.5%
	431-4790 High Gloss	Solid (% by volume):	19.531%
		Shelf Life (months):	6

Product Description:

E. S. Lacquer Elite II is a ready to use, pre-catalyzed Reactive Amino Coating (RAC) with the addition of a UV block. E. S. Lacquer Elite II can be used as a self-seal or used with Variseal® H/S 431-4602, Optiseal Fast Dry 431-1941, Variseal 431-4601 or Chemvinyl 546-8002. E. S. Lacquer II has improved moisture resistance, household wear and household chemical resistance. This coating may be catalyzed to further enhance its durability.

Contact your coating supplier for a recommendation.

The addition of a UV block to E. S. Lacquer Elite II enhances its light stability versus Chemcraft's standard Opticlear. This coating will dry quickly and sand easily. E. S. Lacquer Elite II is supplied ready to use.

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

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

Uses:

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:	<5.11
VOC lb/gal:	<3.70
VOC less exempt g/l:	
VOC g/l:	
VOC lb/lb Solid:	<1.8
VHAPs lb/lb Solid:	<0.4

Note:

N/A

Application Data

Suggested Uses:	Wood Finish
Mixing Ratio:	100 parts 431-47XX to 3 parts 873-0870
Suggested Uses:	1 Day (catalyzed)
Application Viscosity:	Zahn #2 signature cup 21 - 25 seconds
Reducer:	803-1325
Retarder:	800-5328
Clean-up Solvent:	803-1298
Recommended Wet Film:	3 – 5 mils
Coverage:	325 sq. ft/gal 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 steared paper prior to staining or coating. Sealers, if used, should be sanded prior to being coated with 280/320 grit steared paper. The sealer should be topcoated within four hours of being sanded. An appropriate sealer is Variseal® H/S 431-4602, Chemvinyl 431-1923, Optiseal Fast Dry 431-1941, Variseal 431-4601, Chemvinyl 546-8002 or self-seal. E.S. Lacquer Elite II 431-47XX can not 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, 825-91XX Promatch® C-Mix Stains or 890-85XX Promatch Dye Stains.

General Information:

Agitate material before use. Always mix E.S. Lacquer Elite II while adding catalyst and reducers in the recommended mixing ratios to ensure product consistency and consistent gloss.
 Apply at 3 – 5 mils wet on sanded or sealed substrate. Further coats may be applied after complete drying followed by sanding with 280/320 grit steared paper. The second and subsequent coats must be applied the same day as the previous coat is sanded.
 This product can be used as a self sealer, however if a sealer is desired Optiseal 900 H/S 431-4602 is recommended. Maximum film build of E.S. Lacquer Elite II should not exceed 4 mils dry. Maximum film build of total coating system must not exceed 4 mils dry.
 Contact with metal sources should be avoided.
 E. S. Lacquer Elite II must not be polluted with oil, varnish or the like and must not be sanded with steel wool between the coats. It must not be used and dried at temperatures below 64° F or relative humidity above 65%. During the curing process, 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 (20°C / 68°F)	Forced Drying Schedule (50°C / 122°F)
Tack Free Time:	15 – 20 minutes	Flash off before entering oven
Dry to Sand:	1 hour	2 hours
Dry to Stack:	30 - 45 minutes	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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