

Product Information

PRODUCT NAME: E.S. LACQUER

PRODUCT CODE:	431-90XX	431-9020	Low Gloss
		431-9035	Satin
		431-9050	Semi-Gloss
		431-9090	Gloss

DESCRIPTION: E.S. Lacquer is a one-component, precatalyzed lacquer especially developed for surface treatment of furniture where a beautiful appearance with good resistance properties is desired.

E.S. Lacquer is fast drying and well suited for spraying as well as coating by roller and curtain coating. The material is used for an open or semi-open grain finish on all types of wood for interior use. This precatalyzed lacquer has very low odour during the curing process while maintaining its rapid dry and cure properties. E.S. Lacquer, when applied as specified, will meet required performance for the ANSI/KCMA A161.1 1990 9.0 Finish Tests. To augment the chemical resistance of the product, E.S. Lacquer 431-90XX may be catalyzed.

E.S. Lacquer has been tested by an Accredited Laboratory using North American test methods to determine formaldehyde emissions after drying. It has been determined that a close correlation exists between the North American test standards and the German "E-1" classifications, with the figure of 0.3 mg/L or less being equivalent to "E-1" rated material. The formaldehyde emission values for the Opticlear in this test are <0.3 mg/L and as such could be classified as "E-1" equivalent when the product is applied as specified in the test method for lacquers in accordance with agreement with the Swedish Paint Manufacturers Association. Deviation from this test method in application, substrate or curing may vary the formaldehyde emission and customer applied systems should be tested to ensure compliance to the E-1 regulation..

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SPECIFICATIONS:	Gloss:	As required
	Flash Point:	12 C
	Specific Gravity:	0.97
	Solids Content:	30-31% by weight
	Fire Hazard Class:	3
	Health Hazard Class:	3
	Viscosity:	45 sec., Zahn #2
	V.O.C.:	675 g/L

HARDENER MIXING RATIO: When used as a two-component product, mix in 3% 999-017 Hardener by volume.

REDUCTION: Use 121-803 Reducer or 121-802 Slow Reducer as required.

SHELF LIFE: Three months recommended if unopened and stored in a cool, dry area. Always rotate stock.

POT LIFE: When catalyzing, only mix enough material for a maximum of eight hours use.

COVERAGE: Coverage is 7-12 sq. m/L at 100% transfer efficiency. Coverage will vary depending on method of application or coating thickness.

SURFACE PREPARATION: Wood substrate should be sanded with 120, 150 or 180 grit paper prior to staining or coating. Sealers should be sanded with 280/320 grit steared paper prior to topcoating. The sealer should be topcoated within eight hours of sanding. An appropriate sealer is 390-001 Chemseal or self-seal. When recoating, the previous coat of E.S. Lacquer must be sanded and the next coat applied within eight hours. Stain systems under acid containing coatings should be acid stable. E.S. Lacquer can not be used on metal, old oil or cellulose lacquers.

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DIRECTIONS FOR USE: Agitate material before use. Always mix E.S. Lacquer while adding hardener and reducers in the recommended mixing ratios. E.S. Lacquer must be agitated thoroughly at all times to ensure product consistency and consistent gloss.

Apply at 3-5 mils wet on sanded substrate. Further coats may be applied after complete drying followed by sanding with 280/320 grit steared paper.

Contact with metal surfaces should be avoided.

Maximum film build of E.S. Lacquer should not exceed 4 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 Technical Data Sheet will likely result in unsatisfactory film appearance or film failure.

The completed coating system should be checked for required properties prior to start-up of production.

DRYING TIME:

Note: Temperatures are based on actual board temperature. This may vary depending on length of time for boards to reach these temperatures.

At 20 C: (Minimum Required)

Tack Free:	10-15 minutes
Dry to Sand:	~ 2 hours
Dry to Stack:	~ 3 hours

At 50 C:

Tack Free:	Flash off before entering oven
Dry to Sand:	30-45 minutes
Dry to Stack:	60-90 minutes

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APPLICATION:

<u>Method</u>	<u>Viscosity</u>	<u>Recommended</u>	
		<u>Wet Film</u>	<u>Dry Film</u>
Spray - Conventional }			
- Airless }-	20-25", Z #2	3-5 mils	0.8-1.2 mils
- HVLP }			
Curtain Coater:	25-35", Z #2	3-5 mils	0.8-1.2 mils

Note: All measurements recommended are based on results at temperatures of 20 C.

NOTE:

E.S. Lacquer must not be polluted with oil, varnish or the like and must not be sanded with steel wool between the coats.

E.S. Lacquer must not be used and dried at temperatures below 18 C or relative air humidity above 65% as the hardening may otherwise become incomplete. During hardening, the lacquer must not be exposed to ammonia vapours.

Ammonia cleaners should not be used for cleaning the finished surface.

CLEAN-UP:

Use 121-802 or 121-001.

Please refer to the Material Safety Data Sheet for additional information.

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 our products alone or in combination with other products. Users are advised to make their own tests to determine 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 in combination with other products. Use of unapproved or reclaimed solvent blends may reduce film properties and is not recommended.

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