

PRODUCT CODES: EL100 XX (EL10005, EL10010, EL10020, EL10030)

AVAILABLE SHEENS: EL100 05 5 Gloss - Deat Flat
EL100 10 10 Gloss - Flat
EL100 20 20 Gloss - Low Gloss
EL10030 30 Gloss - Satin
Custom sheens available upon request with minimum order

NAME: ENVIROTHANE 100 WARM CLEAR SELF-SEAL TOPCOAT

DESCRIPTION: Envirolak's 100 series of finishes is a one component urethane clearcoat that provides a lasting, durable finish for wooden surfaces. The product line combines outstanding toughness and stain resistance with the wood warmth and hand-feel of traditional solvent based coatings, all in a low VOC water based finish. Envirolak EL100XX meets or exceeds KCMA standards.

USES: Reduction is not required if spraying through a pump, but the product may be reduced with water or ELRX010 Reducer to improve application characteristics depending on the equipment used. Product should be at room temperature and mixed thoroughly prior to finishing to ensure consistency and gloss.

RECOMMENDED APPLICATION:

Spray type:	Air Assist Airless
Fluid Pressure:	500-600 PSI
Air Pressure:	25 PSI (triggered)
Tips:	06 or 09
Spray type:	Airless
Fluid Pressure:	1200-1800 PSI
Tips:	308, fine finish or ultra finish
Spray type:	HVLP (Turbine)
Air Pressure:	Max
Needle:	1.5-1.8
Reduction:	2-5% ELRX010 or 5-10% water
Spray type:	Cup Gun (gravity)
Air Pressure:	40 PSI
Tips:	1.8
Reduction:	2-5% ELRX010 or 5-10% water
Wet Film Build:	4-6 mils
Grams per 1/10 sq. metre: (250x400mm board)	8.5-11g
Number of Coats:	2-3 depending on desired look
Maximum Dry Film Build:	5 mils
Coating Temperature at Application:	20°C (68°F) or higher
*for colder temperatures, add reducer (ELRX010) or warm material prior to spraying	

PHYSICAL PROPERTIES:	Specific Gravity:	1.02 ± 2%
	Viscosity:	2000-2500 cps. at 20°C
	Solids Content:	30% by weight
	Pot Life:	None
	Flash Point:	>75°C
	VOC's:	51.2 g/L, 0.43 lbs/gal
	VOC's (Less Exempt):	150 g/L, 1.25 lbs/gal

SANDING: Sand raw wood 180 grit. Sand EL100 XX between coats with 320 grit or Superfine Sponges.

DRYING TIMES:

Air dry: (20°C/68°F)	Dry to Touch	20 Minutes
	Dry to Sand	1-2 Hours
	Dry to Stack	12-16 Hours

Note: Good gentle air movement (not a hurricane) with a fan while parts are drying will reduce dry to sand times by 20-40% with reasonable humidity levels (<65% r.h.). Lower temperatures or higher humidity can greatly extend dry times.

Conventional Oven: (40-45°C/104-113°F)	Dry to Touch	10 Minutes
	Dry to Sand	30-60 Minutes
	Dry to Stack	3-4 Hours

Sun-Spot IR Cure: (Recommended)	Flash off	1-2 Minutes
	Direct Cure	5-10 Min. @60-70°C (140-160°F)
	Rack Cure (Indirect no probe mode)	10-30 Minutes @20%+ power
	Cool Down	10-20 minutes
	Product is dry to sand (or stack) after cooling	

TYPICAL SYSTEMS:

Stain System:
Substrate: Various Woods, check adhesion on oily woods (teak, ipe, brazilian cherry, etc.) prior to finishing
Water based Wiping or Spray Stain, ELSWB104 or ELSSB100
EL100XX Envirothane 100 Warm Clear Self Seal Topcoat or ELSEAL300 Sealer
Sand using 320 grit sandpaper or Superfine sponges
EL100XX Envirothane 100 Warm Clear Self Seal Topcoat

Dark Solid Colours:
Substrate: MDF
ELPR170 Envirothane 170 White Primer + 5% 896-9901 Black (makes dark grey)
or ELPR180 Envirothane 180 Primer Tinted to any dark color including black
Sand using 320 grit sandpaper or superfine sponge
ELPR170 Envirothane 170 White Primer + 5% 896-9901 Black (makes dark grey)
or ELPR180 Envirothane 180 Primer can be tinted to any color including black
Sand using 320 grit sandpaper or superfine sponge
1 or 2 coats EL100XX Envirothane 100 Series tinted to desired colour

CLEANING: Flush all equipment with water until it runs clear. Built-up coating and deep cleaning can be performed using ELRX110 EnviroKlean WB Cleaner. For best results cleaning tips, aircaps and unpainted parts use ELRX110 for one hour or 10-20 minutes in an Ultrasonic bath (max. temp. 50°C/120°F). Do not leave painted parts (i.e. spray guns) in ELRX110 for more than 20 minutes.

GENERAL INFORMATION: Use stainless steel (304/316) equipment for all water based products. When switching between solvent and water based products in the same spray equipment we suggest the following:

From Solvent to Water: Wash with acetone, then wash with water.

From Water to Solvent: Wash with water, then wash with acetone.

Keep containers closed when not in use and keep from freezing.

These products are designed for industrial use only. Please refer to the Safety Data Sheet prior to use.

SHELF LIFE: 12 months in unopened containers

STORAGE: Store in a tightly closed container at room temperature (18-25°C/64-75°F) and protect from direct sunlight and foreign material. Do not store at temperatures below 5°C/41°F.

Disclaimer: Every reasonable precaution is taken by the manufacturer in the manufacture of our products to ensure that they comply with our standards. The information given herein is correct to the best of our knowledge. Any suggestions made by us covering the use of our products are based on experience and/or tests believed to be reliable. However, because the use of any product of our manufacture is completely beyond our control, including for example, the method and conditions of application, no guarantee or warranty, expressed or implied, is made. Manufacturer's maximum liability shall be to replace such quantity of product determined by our laboratory to be defective. User shall determine the suitability of the product for his intended use and assumes all risk and liability in connection therewith.