

**PRODUCT CODES:** ELNYC300XX (ELNYC30003, ELNYC30005, ELNYC30010, ELNYC30020)  
(ELNYC30030, ELNYC30050, ELNYC30090)

**NAME:** ENVIROTHANE 300 CRYSTAL CLEAR TOPCOAT

<b>AVAILABLE SHEENS:</b>	ELNYC300 03	3 Gloss - Ultra-matte (Natural look)
	ELNYC300 05	5 Gloss - Dead Flat
	ELNYC300 10	10 Gloss - Flat
	ELNYC300 20	20 Gloss - Low Gloss
	ELNYC300 30	30 Gloss - Satin
	ELNYC300 50	50 Gloss - Semi Gloss
	ELNYC300 90	90 Gloss - High Gloss

**DESCRIPTION:** ELNYC300XX series is a water-white clear urethane topcoat that is easy to apply, ultra-clear and intended for use over white basecoats in a glazed system or in clear systems where maximum clarity is desired over light or dark stains. The finished product offers an incredibly smooth and durable finish that is resistant to staining and marking. ELNYC300XX meets or exceeds KCMA standards when used 1K and can also be catalyzed with CAT100-LV hardener to improve adhesion, vertical flow, chemical and mar resistance or crosslinked with CAT150 crosslinker to improve vertical flow, chemical and mar resistance.

**USES:** This product is designed for interior wood finishing applications such as cabinetry, tables, furniture, and millwork.

**PRODUCT PREPARATION:** 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.

<b>CATALYST RATIOS USING CAT100-LV HARDENER</b>	<b>ELNYC300 XX Series</b>	<b>by weight ~10%</b>
	(approx. 2 hr pot life @10%)	2.4kg (2 cans) per 19.6kg (5 GA) pail
	(approx. 4 hr pot life @5%)	480g (2/5 can) per 3.9kg (1 GA)
		<b>by volume ~10% (10:1)</b>
		2.12L (2 cans) per 5 GA
		425mL/14.4oz. (2/5 can) per GA

<b>CATALYST RATIOS USING CAT150 CROSSLINKER</b>	<b>ELNYC300 XX Series</b>	<b>by weight ~ by volume</b>
	Per Quart:	29 grams, 25mL ~ 0.9 fl oz.
	Per Gallon:	117 grams, 100mL ~ 3.4 fl oz.
	Per Pail (5 GA):	582 grams, 497mL ~ 17 fl oz.

## RECOMMENDED APPLICATION:

Spray type:	Air Assisted Airless
Fluid Pressure:	500-600 PSI
Air Pressure:	25 PSI (triggered)
Tips: Kremlin	04114, 06114, 09114, 09154
Wagner	0950, 1150, 1350, 1360, 1380
Graco/CA and others	411, 413, 511, 513, 611, 613
Reduction: Hand Spray	0-3% RX010 or 0-10% H2O
Reduction: Machine Spray (Recip or Rotary)	0-3% RX010 or 0-10% H2O
Spray type:	Airless
Fluid Pressure:	2000-3000 PSI
Tips: Fine Finish, Ultra Finish or Skill Tip	306, 308, 408, 508, 06-17
Reduction: Hand Spray	0-3% RX010 or 0-10% H2O
Reduction: Machine Spray (Recip or Rotary)	0-3% RX010 or 0-10% H2O
Spray type:	HVLP (Turbine) 5 stage or higher
Air Pressure:	Max
Needle:	1.8-2.0 needle high solids air cap
Reduction:	3-5% ELRX010 or 10-15% water
Spray type:	Cup Gun (gravity)
Air Pressure:	25-35 PSI
Tips:	1.8 needle
Reduction:	2-5% ELRX010 or 10-15% Water
Brush:	Medium/Firm Nylon or Polyester
Roll:	Mohair, Velour or 3/16 Microfiber
Reduction:	3-5% ELRX010 or 10-20% 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:	1.04 ± 2%
Viscosity:	1200 cps @20°C
Solids Content:	30% by weight
Pot Life:	NA
Flash Point:	>75°C
VOC's:	117 g/L, 0.98 lb/gal
VOC's (Less Exempt):	270 g/L, 2.25 lb/gal

**SANDING:** Sand raw wood 150- 180 grit to remove any mill glaze, wide belt scratches or oxidation. Sand SEAL500 sealer or 300XX as a self seal between coats with 320 or 400 grit sandpaper and refine with superfine sponges.

**DRYING TIMES:**

<b>Air dry:</b>	Dry to Touch	20 Minutes
<b>(20°C/68°F)</b>	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.

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

<b>Sun-Spot IR Cure:</b>	Flash off	5-10 Minutes
<b>(Recommended)</b>	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:**

**Glazed System:**

Substrate: MDF  
ELPR170 or ELPR170-TB or ELPR160-TB Primer 1K or 2K  
Sand using 320 grit sandpaper or fine sponges  
ELPR170 or ELPR170-TB or ELPR160-TB Primer 1K or 2K  
Sand using 320-400 grit sandpaper and refine with superfine sponges  
ELNYW200XX Topcoat 1K or 2K with CAT100LV or 2K with CAT150  
ELDGB100 Tinted Dry Glaze  
Sand off glaze with maroon Scotch Brite or super fine sponges to highlight profiles or create brush lines  
ELNYC300XX Crystal Clear Topcoat 1K or 2K with CAT100LV or 2K with CAT150

**Stain System:**

Substrate: Various Woods, check adhesion on oily woods (teak, ipe, brazilian cherry, etc.) prior to finishing  
Sand raw wood with 150 or 180 grit sandpaper and fine sponges  
Envirostain wiping, spray, roll coat or dipping stain  
SEAL500 1K or 2K with CAT100LV  
Sand between coats using 320-400 grit sandpaper and refine with superfine sponges  
ELNYC300XX 2K with CAT100LV

## TYPICAL SYSTEMS

### CONTINUED:

#### Stain System:

Substrate: Various Woods, check adhesion on oily woods (teak, ipe, brazilian cherry, etc.) prior to finishing

Sand raw wood with 150 or 180 grit sandpaper and fine sponges

Envirostain wiping, spray, roll coat or dipping stain

ELNYC300XX 1K or 2K with CAT100LV or 2K with CAT150 Crosslinker

Sand using 320-400 grit sandpaper and refine with superfine sponges

ELNYC300XX 1K or 2K with CAT100LV or 2K with CAT150 Crosslinker

### 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.

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