

**PRODUCT CODES:** ELSEAL500

**NAME:** ENVIROCRYL 500 CRYSTAL CLEAR SEALER

**DESCRIPTION:** ELSEAL500 sealer is an acrylic urethane high build water white clear sealer for use under Envirolak topcoats. The product provides excellent clarity and is easy to sand after 1 hour. It can be used 1K or can be catalyzed with CAT100-LV hardener (4-6hr pot life) for improved adhesion and chemical resistance making it suitable for use as a toner over old solvent-based finishes. Used in conjunction with Envirolak water-based topcoats will meet KCMA standards.

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

**PRODUCT PREPARATION:** Reduction is not required on closed pore woods, Add 15% water for open pore woods like oak and walnut. Product should be at room temperature and mixed thoroughly prior to application.

**CATALYST RATIOS  
USING CAT100-LV  
HARDENER**

**ELSEAL500**  
(approx. 4-6 hr pot life @5%)

**by weight ~5%**  
1.2kg (1 cans) per 19.6kg (5 GA) pail  
220g (1/5 can) per 3.9kg (1 GA)  
**by volume ~5% (5:1)**  
1.06L (1 cans) per 5 GA  
212mL/7.2oz.(1/5 can) per GA

**RECOMMENDED  
APPLICATION:**

Spray type:  
Fluid Pressure:  
Air Pressure:  
Tips: Kremlin  
Wagner  
Graco/CA and others  
Reduction Hand Spray  
Reduction Machine Spray (Recip or Rotary)

**Air Assisted Airless**  
300-600 PSI  
25 PSI (triggered)  
04114, 06114, 09114, 09154  
0950, 1150, 1350, 1360, 1380  
411, 413, 511, 513, 611, 613  
0-15% Water  
0-15% Water

Spray type:  
Fluid Pressure:  
Tips: Fine Finish or Ultra Finish  
Reduction Hand Spray  
Reduction Machine Spray (Recip or Rotary)

**Airless**  
1500-2000 PSI  
308, 408, 508  
0-15% Water  
0-15% Water

	Spray type:	<b>HVLP (Turbine) 5 stage or higher</b>
<b>RECOMMENDED APPLICATION:</b>	Air Pressure:	Max
	Needle:	1.8-2.0 needle, high solids air cap
	Reduction:	0-15% Water
	Spray type:	<b>Cup Gun (gravity)</b>
	Air Pressure:	20-25 PSI
	Tips:	1.5 - 1.8
	Reduction:	0-15% Water
	Brush:	Medium/Firm Nylon or Polyester
	Roll:	Mohair, Velour or 3/16 Microfiber
	Reduction:	0-15% Water
	Wet Film Build:	4-6 mils
	Grams per 1/10 sq. metre: (250x400mm board)	8.5-11g
	Number of Coats:	1-2 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	
<b>PHYSICAL PROPERTIES:</b>	Specific Gravity:	1.02 ± 2%
	Viscosity:	3500-4000 cps @20°C
	Solids Content:	36% by weight
	Pot Life:	NA (4-6 hrs @ 5% CAT100-LV)
	Flash Point:	>75°C
	VOC's:	85 g/L, 0.7 lb/gal
	VOC's (Less Exempt):	235 g/L, 1.96 lb/gal
<b>SANDING:</b>	Substrate should be sanded with 150-180 grit sandpaper prior to staining or applying sealer. Stains should be allowed to dry prior to application of seal coat. Sand sealer with 320-400 grit sandpaper or Superfine sponges.	

# Envirolak

Technical Data Sheet  
ELSEAL500  
Revision Date: 3/20/24

## DRYING TIMES:

**Air dry:** Dry to Touch 5-10 Minutes  
**(20°C/68°F)** Dry to Sand 20-40 minutes  
Dry to Stack 8 hours  
Note: Gentle air movement (recirculator or fan) while parts are drying will reduce dry to sand times by 20-40%. Allow parts to flash off 2-3 minutes.

**Conventional Oven:** Dry to Touch 5-10 Minutes  
**(40-45°C/104-113°F)** Dry to Sand 15-25 Minutes  
Dry to Stack 2-3 Hours

**Sun-Spot IR Cure:** Flash off 5-10 Minutes  
**(Recommended)** Cure 10 Minutes @60-70°C  
Cool Down 5-10 Minutes  
Product is dry to sand (or stack) after cooling

**TYPICAL SYSTEMS:** Substrate: Maple, Cherry or other closed pore woods  
Envirostain Wiping or Spray Stain  
ELSEAL500 1K or with 5% CAT100LV no reduction  
Sand using 320/400 grit sandpaper and super fine sponges  
ELAC500XX or ELNYC300XX 1K or 2K or EL100XX or EL125XX with CAT100LV

**TYPICAL SYSTEMS:** Substrate: Oak, Walnut or other open pore woods  
Envirostain Wiping or Spray Stain  
ELSEAL500 1K or with 5% CAT100LV reduced 15% with water  
Sand using 320/400 grit sandpaper and super fine sponges  
ELAC500XX or ELNYC300XX 1K or 2K or EL100XX or EL125XX with CAT100LV

**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 wash all equipment well. 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.