

PRODUCT CODES: ELSEAL500

NAME: ENVIROCRYL 500 CRYSTAL CLEAR SEALER

DESCRIPTION: ELSEAL500 is a water white clear acrylic urethane high build sealer for mass production under all Envirolak topcoats. It prevents fiber raise and sands exceptionally well with excellent clarity. It has the properties of an Isolator that sticks to almost everything and everything sticks to it. It is very easy to spray without reduction, has exceptional block resistance in as little as 2 hours in simple air dry conditions and in minutes when using heat to speed up the drying process. This coating is suitable for tough environments like kitchens and baths when used as a 1K product and can also be catalyzed with CAT100-LV hardener (6 hr pot life) to improve adhesion and chemical resistance or crosslinked with CAT150 crosslinker to improve chemical resistance. It passes KCMA requirements when used in conjunction with Envirolak topcoats.

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 10-15% water for open pore woods like oak and walnut. Product should be at room temperature and mixed thoroughly prior to application.

2K MIXING RATIOS:

	CAT100-LV Hardener (~10% wt)	CAT150 Crosslinker (3%)
QT	90g/75mL	29 grams/25mL/0.9floz.
0.94GA	360g/300mL	117 grams/100mL/3.4floz.
4.7GA	1.8kg (1.5 jars)	530 grams/450mL/15floz.

SANDING: Substrate should be sanded with 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.

RECOMMENDED APPLICATION:

Spray type:	Air Assisted Airless
Fluid Pressure:	300-600 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	Not required
Reduction Machine Spray (Recip or Rotary)	Not required

Spray type:	Airless
Fluid Pressure:	2000-3000 PSI
Tips: Fine Finish, Ultra Finish or Skill Tip	306, 308, 408, 508, 04-17, 06-17
Reduction Hand Spray	Not required
Reduction Machine Spray (Recip or Rotary)	Not required

Spray type:	HVLP (Turbine) 5 stage or higher
Air Pressure:	Max
Needle:	1.8 needle high solids air cap
Reduction:	0-5% ELRX010 or 0-10% water

Spray type:	Cup Gun (gravity)
Air Pressure:	25-35 PSI
Tips:	1.8 needle
Reduction:	0-5% ELRX010 or 0-10% water

Brush:	Medium/Firm Nylon or Polyester
Roll:	Mohair, Velour or 3/16 Microfiber
Reduction:	0-3% ELRX010 or 0-10% water

Wet Film Build:	4-6 mils
Grams per 1/10 sq. metre: (250x400mm board)	10-15 grams (2.7g/wet mil)
Number of Coats:	1-2 depending on desired look
Maximum Dry Film Build:	5 mils

PHYSICAL PROPERTIES:

Specific Gravity:	1.02 ± 2%
Viscosity:	3500-4000 cps @20°C
Solids Content:	31% by weight
Pot Life:	NA (6 hrs @ 10% CAT100-LV)
Flash Point:	>75°C
VOC's:	95 g/L, 0.8 lb/gal
VOC's (Less Exempt):	225 g/L, 1.90 lb/gal

DRYING TIMES:

Air dry: (20°C/68°F)	Dry to Touch	15 minutes
	Dry to Sand	50 mins
	Dry to Recoat	1-2 hours
	Dry to Stack	2 - 3 Hours
	Note: Gentle air movement (recirculator or fan) while parts are drying will reduce dry to sand times by 20-40%	
Conventional Oven: (40-45°C/104-113°F)	Dry to Touch	7 - 10 minutes
	Dry to Sand	20 minutes
	Dry to Recoat	30 minutes
	Dry to Stack	1-2 hours
Sun-Spot IR Cure: (Recommended)	Flash off	2 minutes
	Direct Cure	4-5 minutes @60-70°C (140-160F)
	Rack Cure	10 minutes @10%+ power
	Cool Down	10-20 minutes
	Product is dry to stack (or sand) after cooling	

TYPICAL SYSTEMS:	Substrate: Maple, Cherry, Oak etc...
	ELSWB104 Wiping Stain (tinted) ELSEAL500 Envirocyl 500 Clear Sealer 1K or 2K with 10% CAT100LV or ELAC50020 Envirocyl Clear Top Coat 1K or 2K with 10% CAT100LV Sand using 320-400 grit sandpaper and Veryfine or Superfine sponges ELAC50020 Envirocyl Clear Top Coat 1K or with 3% CAT150 or with 10% CAT100LV
	Substrate: Maple, Cherry, Oak etc...
	ELSSB100 Spray Stain (tinted) ELSEAL500 Envirocyl 500 Clear Sealer 1K or 2K with 10% CAT100LV Sand using 320-400 grit sandpaper and Veryfine or Superfine sponges EL100XX or ELAC50020 Envirocyl Clear Top Coat 1K or with 3% CAT150 or with 10% CAT100LV

Envirolak

Technical Data Sheet
ELSEAL500
Revision Date: 3/3/2026

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


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

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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