

Envirolak

Technical Data Sheet

ELAC500xx

3-3-26

PRODUCT CODES: ELAC50030, ELAC50020, ELAC50010

AVAILABLE SHEENS: ELAC50010 10 Gloss - Flat
ELAC50020 20 Gloss - Low Gloss
ELAC50030 30 Gloss - Satin

NAME: ENVIROCRYL 500 CLEAR TOPCOAT

DESCRIPTION: ELAC500XX series is a water white clear acrylic urethane topcoat which is also tintable for dark colours and is designed for mass production. It is very economical, can be used as a self seal, has a smooth, waxy feel and passes KCMA requirements. It loves heat, can be force cured and dries very fast. 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 (5 hr pot life) to improve adhesion, chemical and mar resistance or crosslinked with CAT150 crosslinker to improve chemical and mar resistance.

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

PRODUCT PREPARATION: Reduction is generally not required. Product should be at room temperature and mixed thoroughly prior to finishing to ensure consistency and gloss.

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 finishing.

RECOMMENDED APPLICATION:

Spray type:	Air Assisted Airless
Fluid Pressure:	300-600 PSI
Air Pressure:	25 PSI (triggered)
Tips: Kremlin	04114, 06114, 09154
Wagner	0950, 1150, 1350, 1360
Graco/CA and others	409, 411, 413, 511, 513, 611
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
Maximum Dry Film Build:	6 mils
Coating Temperature at Application:	18°C (65°F) or higher
Specific Gravity:	1.04 ± 2%
Viscosity:	3500-4500 cps @20°C
Solids Content:	27% by weight (25% by volume)
Flash Point:	>75°C
VOC's (Less Exempt):	180 g/L, 1.51 lb/gal

PHYSICAL PROPERTIES:

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: MDF	
	ELPR160-TB Envirocyl White Primer (2 coats to fill), Sand 320	
	ELACW45020 Envirocyl 450 White Topcoat	
	ELDGB100 Dry Glaze (tinted)	
	Scuff sand 320 to remove glaze and abrade colourcoat	
ELAC50010 1K or 2K with 3% CAT150 or with 10% CAT100LV		

Envirolak

Technical Data Sheet

ELAC500xx

2026-03-03

**GENERAL
INFORMATION:**

Use stainless steel or plastic 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

Disclaimer: Every reasonable precaution is taken 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.