

Envirolak

Technical Data Sheet
ELACW450 XX
Revision Date: 4/13/26

PRODUCT CODES: ELACW450XX (ELACW45010, ELACW45020, ELACW45030)

NAME: ENVIROCRYL 450 WHITE TOPCOAT

AVAILABLE SHEENS:

ELACW450 10	10 Gloss - Flat
ELACW450 20	20 Gloss - Low Gloss
ELACW450 30	30 Gloss - Satin

DESCRIPTION: ELACW450XX series is a white acrylic topcoat that is designed for mass production, it's very economical, has a smooth, waxy feel and passes KCMA requirements. It loves heat and can be force cured and dries very fast. It is also suitable for the simplest applications including brushing and rolling. It is very easy to spray without reduction, has exceptional block resistance in as little as two hours in simple air dry conditions and in minutes when using heat to speed up the drying process. This product can be tinted to any light/off-white or pastel colour, has high build and great hiding with one coat coverage. This coating is suitable for tough environments like kitchens and baths when used as a 1K product and can be crosslinked with CAT150 crosslinker to improve chemical and mar resistance. This product has excellent leveling and anti-sag properties for vertical applications and dries very fast eliminating bridging issues.

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

PRODUCT PREPARATION: Reduction is not required when spraying with Air Assisted Airless, Airless, pressure pots, HVLP turbine and conventional cup guns but the product may be reduced with water or ELRX010 Reducer if desired or when brushing and rolling to improve leveling. Product should be at room temperature and mixed thoroughly prior to application.

CATALYST RATIOS	ELNYW450 XX	by weight ~ by volume
USING CAT150	Per Quart:	34 grams, 29mL ~ 1 fl oz.
CROSSLINKER	Per Gallon:	135 grams, 116mL ~ 4 fl oz.
At 3% Max Dosage	Per Pail (5 GA):	680 grams, 582mL ~ 20 fl oz.

**RECOMMENDED
APPLICATION:**

Spray type:	Air Assisted Airless
Fluid Pressure:	400-600 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)	12-19 grams (3.1g/wet mil)
Number of Coats:	1 - 2
Maximum Dry Film Build:	6 mils
Coating Temperature at Application:	15°C (59°F) or higher

PHYSICAL PROPERTIES:	Specific Gravity:	1.20 ± 2%
	Viscosity:	3500 cps @20°C
	Solids Content:	42% by weight (30% by vol.)
	Flash Point:	>75°C
	VOC's (Less Exempt):	141 g/L, 1.18 lb/gal

SANDING: Sand primer or in between coats with 320-400 grit sandpaper and refine with Very fine or Superfine Sponges if desired.

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: **Whites or Light Colours:
Refinishing - over old finishes**

Prep: Degrease, premix 1 part RX110 (EnviroKlean) - 4 parts water, spray on surface, scrub with maroon scotchbrite or stiff nylon brush to loosen grease and contamination, wipe clean with wet rag with water to remove EnviroKlean, wipe again with a dry rag to remove any remaining EnviroKlean or grease, allow to dry and sand with 180 grit or fine sponges

ELPRT9000 1K or ELPR160TB 1K or ELPR170/170TB 2K with CAT100LV
Sand using 320 grit sandpaper or fine sponges
ELPRT9000 1K or ELPR160TB 1K or ELPR170/170TB 2K with CAT100LV
Level Sand using 320 grit sandpaper and V fine or S Fine sponges
1 or 2 coats ELACW450XX Topcoat 1K or crosslinked with CAT150

**Whites or Light Colours:
Substrate: MDF**

ELPR160TB 1K or T9000 1K or ELPR170/170TB
Sand using 320 grit sandpaper or fine sponges
ELPR160TB 1K or T9000 1K or ELPR170/170TB
Level Sand using 320 grit sandpaper and V fine or S Fine sponges
1 or 2 coats ELACW450XX Topcoat 1K or crosslinked with CAT150

Whites or Light Colours:

Substrate: Natural woods and veneers

ELPRT9000 or ELPRT160-TB 1K or ELPR170/170TB 2K with CAT100LV
Sand using 320 grit sandpaper or fine sponges
ELPRT9000 or ELPRT160-TB 1K or ELPR170/170TB 2K with CAT100LV
Level Sand using 320 grit sandpaper and V fine or S Fine sponges
1 or 2 coats ELACW450XX Topcoat 1K or crosslinked with CAT150

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.