

PRODUCT CODE: ELPRT9000

NAME: ENVIROCRYL T9000 STAIN BLOCKING AND BONDING PRIMER WHITE

DESCRIPTION: ELPRT9000 is designed to be used as a 1K product in order to achieve a smooth white basecoat for new construction or refinish applications. PRT9000 offers industry leading stain, dye and tannin blocking in an easy to use, one-component water based primer. ELPRT9000 has excellent adhesion to a variety of existing coatings (solvent or water based) as well as veneers, solid wood or MDF.

NOTE: Do not use 100 series topcoat directly over PRT9000 as it will not adhere. If you require a dark colour we recommend first applying a coat of PR180 (tinted) over the PRT9000 to achieve adhesion then applying the tinted 100 series topcoat.

PRODUCT PREPARATION: **IMPORTANT!! LIQUID PRT9000 DOES NOT MIX WITH OTHER MATERIALS!!!** Make sure you flush your system thoroughly with water before and after using ELPRT9000. If you load any other product into your system after PRT9000 without a water rinse you will cause resin to kick out leaving grit in your finish and causing significant clogging. Reduction is generally not required. Product should be at room temperature and mixed thoroughly prior to finishing to ensure consistency.

RECOMMENDED APPLICATION:

Spray type:	Air Assist Airless
Fluid Pressure:	300-600 PSI
Air Pressure:	20-25 PSI (triggered)
Tips:	06 or 09 (0.011 -0.013 inch)
Spray type:	Airless
Fluid Pressure:	1200-2000 PSI
Tips:	306 or 308, fine finish or ultra finish
Spray type:	HVLP (Turbine)
Air Pressure:	75-100%
Needle:	1.5-1.8
Reduction:	Water if needed (<5 stage)
Spray type:	Cup Gun (gravity)
Air Pressure:	25-35 PSI
Tips:	1.8
Reduction:	Water if needed
Wet Film Build:	3-5 mils
Grams per 1/10 sq. metre: (250x400mm board)	10-17g
Number of Coats:	1-2 depending on application
Maximum Dry Film Build:	6 mils
Coating Temperature at Application:	minimum 16°C (60°F) or higher
*for colder temperatures, add water or warm up the material prior to spraying	

SANDING:

Raw wood/veneer/MDF: Substrate should be sanded with 180 - 320 grit sandpaper prior to applying primer. Very lightly sand primer with 320 grit or fine sponges prior to application of next layer for best appearances. You may apply another coat of PRT9000 on itself without sanding in between. If using powered sanders it is beneficial to reduce the speed to prevent heat which will reduce clogging.

Refinishing: Thoroughly clean the existing finish to remove old oil, grease, surface stains and any chipped or flaking paint. Sand the substrate with 180 - 320 grit sandpaper or fine sponges depending on the condition of the surface to be refinished. Failure to properly prepare a previously finished surface prior to finishing with ELPRT9000 may result in film failures such as fisheyes or loss of adhesion.

DRYING TIMES:

ELPRT9000 loves heat (conventional or IR) and will be recoatable much faster if you are able to dry it at elevated temperatures. Please see our notes regarding Dry Times below:

Air dry:
(20°C/68°F)
4-5 wet mils*

Dry to Touch	30 Minutes
Dry to Sand	1-2 hours
Dry to Stack	Overnight

*if you apply a second coat or a heavy first coat these times will double.

Dry to Topcoat	4-48 hours (See Below)
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The unique stain blocking chemistry of this primer makes it sensitive to early recoat times when using 1K polyurethane products. Most acrylic, urethane/acrylic or 2K-isocyanate based coatings can be applied within 2-4 hours of primer application. One component polyurethanes (PR170/ELNYW200) may require overnight drying or longer if more than one coat (>5 wet mils) of PRT9000 was applied. Air movement or heat applied to any subsequent coat over top of PRT9000 will reduce recoat times and the risk of that coat from cracking.

Adding ELCAT100 to the subsequent coat over top of PRT9000 will also help prevent cracking in that coat. See drying notes on using hardener/crosslinker below.

Air Drying with a 2K Topcoat:

If you use ELCAT100 Hardener or ELCAT150 Crosslinker in your topcoat over ELPRT9000 you can recoat in a much shorter window. The following recoat times are recommended when using 2-component topcoats.

Coats of ELPRT9000

1 x 4 mils
2 x 4 mils

Coats of ELPRT9000

1 x 4 mils
2 x 4 mils

ELNYW200XX + 8.8% ELCAT100

Recoat - 2 hrs
Recoat - 4 hrs

ELNYW200XX + 3% ELCAT150

Recoat - 4 hrs
Recoat - 8 hrs

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Technical Data Sheet
ELPRT9000
Revision Date: 8/3/22

Conventional Oven: (40-50°C/104-120°F)	Dry to Touch	10-20 Minutes
	Dry to Sand	30-60 Minutes
	Dry to Stack	1-3 Hours
Sun-Spot/IR Cure: (Recommended)	Flash off	2-5 minutes
	Direct Cure	5 Minutes @60-70°C (140-160°F)
	Rack Cure (Indirect no probe mode)	10-15 Minutes @20%+ power
	Cool Down	15-20 minutes
	Product is ready for stacking/sanding/recoating after cool down.	

PHYSICAL PROPERTIES:	Specific Gravity:	1.35 ± 2%
	Viscosity:	1500cps @25°C
	Solids Content:	57% by weight
	Pot Life:	None
	Flash Point:	>100°C
	VOC's:	4.5 g/L, 0.05 lb/gal
	VOC's (Less Exempt):	11 g/L, 0.088 lb/gal

APPROVED SYSTEM: Over Existing Finishes:
Substrate: Honey on Oak (you know the colour I mean... thanks 1976!)
Substrate Preparation: degrease (simple green, etc.), Dawn dish soap and water wash, water rinse, dry, sand 180-320 grit/fine sponges
ELPRT9000 Stain Blocking and Bonding Primer
Dry overnight
Scuff 320 or Superfine sponges
1 or 2 coats ELNYW200XX Envirothane 200 White Topcoat

CLEANING: Flush all equipment with water until it runs clear. **DO NOT MIX LIQUID PRT9000 WITH OUR ELRX110 CLEANER**, it will turn into a gelatinous mass that will be very hard to clean up. Clean up wet product with water (no soap) or a blend of alcohol/water. Dried material can be cleaned with ELRX110.

GENERAL INFORMATION: Use stainless steel (304/316) equipment for all water based products. 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.