

PRODUCT CODE: ELPRT9000

NAME: ENVIROCRYL T9000 STAIN BLOCKING AND BONDING PRIMER WHITE

DESCRIPTION: ELPRT9000 is a specially designed 1K primer for refinishing and new construction. PRT9000 offers industry leading stain, dye and tannin blocking with great adhesion 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, MDF, concrete and stone. Grease and oils will bleed and must be removed prior to application.

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 apply the tinted 100 series topcoat.

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

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 cause significant gelling or clogging. Reduction is generally not required. Product should be at room temperature and mixed thoroughly prior to application to ensure consistency.

RECOMMENDED APPLICATION:

Spray type:	Air Assisted Airless
Fluid Pressure:	450-600 PSI
Air Pressure:	25 PSI (triggered)
Tips: Kremlin	06114, 09114, 09154
Wagner	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)	Add 1-2% RX114 Retarder

Spray type:	Airless
Fluid Pressure:	2000-3000 PSI
Tips: Fine Finish, Ultra Finish or Skill Tip	308, 408, 508, 410, 09-17
Reduction: Hand Spray	Not required
Reduction: Machine Spray (Recip or Rotary)	Add 1-2% RX114 Retarder

Spray type:	HVLP (Turbine) 4 stage or higher
Air Pressure:	Max
Needle:	1.8-2.0 needle high solids air cap
Reduction:	3% water

Enviroлак

Technical Data Sheet
ELPRT9000
Revision Date: 2/12/2024

RECOMMENDED APPLICATION:

Spray type: Cup Gun (gravity)
Air Pressure: 30-40 PSI
Tips: 1.8 needle
Reduction: Not required, 3-5% water optional

Brush: Medium/Firm Nylon or Polyester
Roll: Mohair, Velour or 3/16 Microfiber
Reduction: 1-5% Water

Wet Film Build: 4-6 mils
Grams per 1/10 sq. metre: (250x400mm board) 16g - 24g
Number of Coats: 1-2 depending on desired look
Maximum Dry Film Build: 6 mils

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 150 - 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. If using powered sanders it is beneficial to reduce the speed to prevent heat which will reduce clogging. Two coats can be applied same day back-to-back without sanding between and still achieve good adhesion, a quick scuff is required if more than 8 hours elapsed between coats. All of our primers must be sanded same day as topcoat application as they cure quickly, if the primer is sanded and left overnight it will require a quick scuff with maroon scotchbrite or a super fine sponge for adhesion before applying topcoat.

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 2-8 hours (**See Below**)

The unique stain blocking chemistry of this primer makes it sensitive to early recoat times when air drying without heat curing. Most acrylic, urethane/acrylic or 2K-isocyanate based coatings can be applied within 2-4 hours of primer application. One component polyurethanes are not recommended for use over T9000 (PR170/ELNYW200) will require CAT100LV hardener or CAT150 crosslinker in order to be applied over T9000. Failure to follow these guidelines can result in topcoats alligator cracking.

Air dry times before applying 1K Topcoat

Envirolak's 400 or 800 Series can be applied as a 1K over T9000 with 2 hours of air drying at 20C/68F temp or higher with gentle air movement.

Coats of ELPRT9000

1 x 4 mils

2 x 4 mils

ELACW400XX or ELNYW800XX

Recoat - 2 hrs

Recoat - 4 hrs

Air dry times before applying 2K Topcoat

200 Series can be used as a 2K over T9000 by adding ELCAT100LV Hardener or ELCAT150 Crosslinker. See dry times below based on film thickness.

Coats of ELPRT9000

1 x 4 mils

2 x 4 mils

ELNYW200XX + 8.8% ELCAT100

Recoat - 2 hrs

Recoat - 4 hrs

Coats of ELPRT9000

1 x 4 mils

2 x 4 mils

ELNYW200XX + 3% ELCAT150

Recoat - 4 hrs

Recoat - 8 hrs

Conventional Oven:
(40-50°C/104-120°F)

Dry to Touch

Dry to Sand

Dry to Stack

10-20 Minutes

30-60 Minutes

1-3 Hours

Sun-Spot/IR Cure:
(Recommended)

Flash off

Direct Cure

Rack Cure (Indirect no probe mode)

Cool Down

Product is ready for stacking/sanding/recoating after cool down.

2-5 minutes

5 Minutes @60-70°C (140-160°F)

10-15 Minutes @20%+ power

15-20 minutes

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!)
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
1 or 2 coats ELPRT9000 Stain Blocking and Bonding Primer
Scuff 320 or Superfine sponges
Optional 2nd coat
1 or 2 coats ELACW400XX or ELNYW800XX 1K or with CAT150 Crosslinker
1 or 2 coats ELNYW200XX with CAT100LV Hardener or CAT150 Crosslinker

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.