

**PRODUCT CODE:** ELPR170-TB

**NAME:** Envirothane 170-TB Tannin Blocking White Primer

**DESCRIPTION:** ELPR170-TB Water based primer provides an excellent foundation for any solid colour systems on MDF as either a 1K or 2K product. When using PR170-TB on veneer, solid wood or in a refinish situation it is necessary to use the product as a 2K system by adding ELCAT100 Hardener to improve adhesion and prevent cracking. Based on a urethane resin system, this high-hide primer lays down very flat and provides unsurpassed filling properties especially for MDF, where it does not swell the fibres like other water based products in the market. It offers all the same properties as our ELPR170 with the addition of a tannin blocking additive.

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

**SANDING:** MDF substrate should be sanded with at least 180 grit (preferably 320 for any routed-out areas) or finer sandpaper prior to applying primer. Sand primer with 320 grit sandpaper or fine sponges. Two coats can be applied same day back-to-back without sanding between and still achieve good adhesion.

**RECOMMENDED APPLICATION:**

Spray type:	Air Assist Airless
Fluid Pressure:	500-700 PSI
Air Pressure:	25 PSI (triggered)
Tips:	06, 09 or 12
Spray type:	Airless
Fluid Pressure:	1200-2000 PSI
Tips:	310, fine finish or ultra finish
Spray type:	HVLP (Turbine)
Air Pressure:	Max
Needle:	1.5-1.8
Reduction:	2-5% ELRX010
Spray type:	Cup Gun (gravity)
Air Pressure:	40 PSI
Tips:	1.8
Reduction:	2-5% ELRX010
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
Coating Temperature at Application:	20°C (68°F) or higher
*for colder temperatures, add reducer (ELRX010) or warm material prior to spraying	

**PRODUCT PREPARATION:** Reduction is not required if spraying through airless or air assist pump, but the product may be reduced up to 10% with water to improve application characteristics depending on the equipment used. Product should be at room temperature and mixed thoroughly prior to use to ensure consistency.

**PHYSICAL PROPERTIES:**

Specific Gravity:	1.5 ± 2%
Viscosity:	2500cps @20°C
Solids Content:	70% by weight
Pot Life:	None
Flash Point:	>75°C
VOC's:	54 g/L, 0.45 lb/gal
VOC's (Less Exempt):	62 g/L, 0.51 lb/gal

**DRYING TIMES:**

**Air dry:**  
(20°C/68°F)

Dry to Touch	10 Minutes
Dry to Sand	40-60 Minutes
Dry to Stack	12 Hours

Note: Good gentle air movement (not a hurricane) with a recirculator or fan while parts are drying will reduce dry to sand times by 20-40% with reasonable humidity levels (<65% r.h.). Lower temperatures or higher humidity will extend dry times.

**Conventional Oven:**  
(40-45°C/104-113°F)

Dry to Touch	5-10 Minutes
Dry to Sand	15-25 Minutes
Dry to Stack	1-3 Hours

**Sun-Spot IR Cure:**  
(Recommended)

Flash off	1-2 Minutes
Direct Cure	5 Minutes @60-70°C (140-160°F)
Rack Cure (Indirect no probe mode)	10-15 Minutes @20%+ power
Cool Down	10-20 minutes

Product is dry to sand (or stack) after cooling

**TYPICAL SYSTEMS:**

**Note:** Two coats of PR170-TB can be applied same day without sanding between.

**Refinish - Over Old Finishes**  
Substrate: Old Honey Oak with Pre-cat Lacquer  
Prep: Degrease, rinse and sand 180 grit  
1 or 2 coats, ELPR170-TB White Primer with 2.5% - 5% by vol. ELCAT100 Hardener  
Sand using 320 grit sandpaper or fine sponge  
1 or 2 coats ELNYW200XX Envirothane 200 White Topcoat

**New Finish - Solid Wood Frame with Veneer core**  
ELPR170-TB White Primer with 2.5% - 5% by vol. ELCAT100 Hardener  
Sand using 320 grit sandpaper or fine sponge  
ELPR170-TB Envirothane 170-TB White Primer  
Sand using 320 grit sandpaper or fine sponge  
1 or 2 coats ELNYW200XX Envirothane 200 White Topcoat

**TYPICAL SYSTEMS:**    **Whites or Light Colours:**

Substrate: MDF  
ELPR170-TB, Envirothane 170-TB Tannin Blocking White Primer  
Sand using 320 grit sandpaper or fine sponge  
ELPR170-TB, Envirothane 170-TB Tannin Blocking White Primer  
Sand using 320 grit sandpaper or fine sponge  
1 or 2 coats ELNYW200XX Envirothane 200 White Topcoat

**Dark Colours:**

Substrate: MDF  
ELPR170-TB, Envirothane 170-TB + 5% 896-9901 Black (makes dark grey)  
Sand using 320 grit sandpaper or fine sponge  
ELPR170-TB, Envirothane 170-TB + 5% 896-9901 Black (makes dark grey)  
Sand using 320 grit sandpaper or fine sponge  
1 or 2 coats EL100XX or ELNYC300XX Envirothane 100 or 300 Series tinted to desired colour

**CLEANING:**

Flush all equipment with water until it runs clear. Built-up coating and deep cleaning can be performed using ELRX110 EnviroKlean WB Cleaner. For best results cleaning tips, aircaps and unpainted parts use ELRX110 for one hour or 10-20 minutes in an Ultrasonic bath (max. temp. 50°C/120°F). Do not leave painted parts (i.e. spray guns) in ELRX110 for more than 20 minutes.

**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 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 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.