

Technical Data Sheet ELPR170 Revision Date: 2/8/2024

PRODUCT CODE: **ELPR170**

NAME: **Envirothane 170 White Primer High Solids**

DESCRIPTION: ELPR170 is a universal urethane primer that provides an excellent foundation for any

> solid colour systems on MDF as either a 1K or 2K product. When using PR170 on veneer, solid wood or in a refinish situation it is necessary to use the product as a 2K system by adding CAT100-LV Hardener to improve adhesion and prevent cracking or checking of veneers and soft woods. This 70% solids high-hide primer lays down very flat and provides unsurpassed filling properties especially for MDF, where it does not swell the fibers like other water based products in the market. It offers fast dry times

and is easy to sand without being easy to sand through.

USES: This product is designed for interior wood finishing applications such as cabinetry,

tables, furniture and millwork.

PRODUCT

Reduction is not required when spraying with Air Assisted Airless or Airless, however, adding 3% RX010 reducer will help the product to lay down extremely flat reducing the PREPARATION:

amount of sanding required to level sand prior to top coating. Reduction is

reccomended for pressure pots, HVLP turbine, conventional cup guns or brush and roll. Product should be at room temperature and mixed thoroughly prior to application. Drill

mix any soft settling off the bottom of a can is reccomended.

CATALYST RATIOS USING CAT100-LV HARDENER

ELPR170

(approx. 2 hr pot life @~5%) (approx. 4 hr pot life @~2.5%) by weight 5%

1.2kg (1 can) per 22.7kg (4 GA) pail 300g (1/4 can) per 5.65kg (1 GA)

by volume 5%

1060mL/36oz.(1 can)per 4 GA pail 240mL/8oz.(1/4 can) per GA

RECOMMENDED APPLICATION:

Spray type: Fluid Pressure: Air Pressure:

Tips: Kremlin

Wagner

Graco/CA and others

Reduction: Hand Spray

Reduction: Machine Spray (Recip or Rotary)

Spray type: Fluid Pressure:

Tips: Fine Finish, Ultra Finish or Skill Tip

Reduction: Hand Spray

Reduction: Machine Spray (Recip or Rotary)

Air Assisted Airless 500-800 PSI 25 PSI (triggered)

06114, 09114, 09154, 09174 1150, 1350, 1360, 1380 411, 413, 511, 513, 611, 613 Not required, 3% RX010 suggested

Add 5% RX010 & 1% RX114

Airless

2000-3000 PSI

308, 408, 508, 410, 09-17

Not required, 3% RX010 suggested

Add 5% RX010 & 1% RX114



HVLP (Turbine) 5 stage or higher

Envirolak

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RECOMMENDED APPLICATION:

Spray type: Air Pressure:

Needle:1.8-2.0 needle high solids air capReduction:10% ELRX010 or 20-30% water

Spray type: Cup Gun (gravity)

Air Pressure: 30-40 PSI Tips: 1.8 needle

Reduction: 2-5% ELRX010 or 10-15% Water

Max

Brush: Medium/Firm Nylon or Polyester Roll: Mohair, Velour or 3/16 Microfiber Reduction: 3-5% ELRX010 or 10-15% 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

Coating Temperature at Application: 20°C (68°F) or higher

*for colder temperatures, add reducer (ELRX010) or warm material prior to spraying

PHYSICAL Specific Gravity: $1.5 \pm 2\%$

PROPERTIES: 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

SANDING: Sand raw wood or veneer with 150 or 180 grit to remove any mill glaze or oxidation.

Sand MDF with 240 - 320 grit sandpaper especially any machined (saw marks, edges & routed-out areas) prior to applying primer. Sand primer with 320/400 grit sandpaper or fine/super fine sponges. Two coats can be applied same day back-to-back without sanding between and still acheive 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.





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DRYING TIMES: Dry to Touch 10 Minutes Dry to Sand 40-60 Minutes Air dry: (20°C/68°F) 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: Dry to Touch 5-10 Minutes (40-45°C/104-113°F) Dry to Sand 15-25 Minutes Dry to Stack 1-3 Hours

Flash off Sun-Spot IR Cure: 1-2 Minutes

5 Minutes @60-70°C (140-160°F) **Direct Cure** (Recommended)

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

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

Refinish - Over Old Finishes

Substrate: Old Honey Oak with Pre-cat Lacquer (from your uncles house in 1980) Prep: Degrease, premix 1 part RX110 (Enviroklean) - 4 parts water, spray on

surface, scrub with marroon 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, ELPR170 White Primer with 2.5% - 5% by vol. ELCAT100LV Hardener

Sand using 320/400 grit sandpaper, refine with fine/super fine sponges

1 or 2 coats ELNYW200XX or ELACW400XX or EL100XX Topcoats 1K or 2K or

ELNYW800XX 1K or with Crosslinker

New Construction - Solid Wood Frame with Veneer or MDF Center Panel 1 or 2 coats, ELPR170 White Primer with 2.5% - 5% by vol. ELCAT100LV Hardener

Sand using 320/400 grit sandpaper, refine with fine/super fine sponges

1 or 2 coats ELNYW200XX or ELACW400XX or EL100XX Topcoats 1K or 2K or

ELNYW800XX 1K or with Crosslinker

TYPICAL SYSTEMS: New Construction - Whites or Light Colours:

Substrate: MDF

ELPR170 Envirothane White Primer 1K or 2K Sand using 320 grit sandpaper or fine sponge ELPR170 Envirothane White Primer 1K or 2K

Sand using 320/400 grit sandpaper, refine with fine/super fine sponges

1 or 2 coats ELNYW200XX or ELACW400XX or EL100XX Topcoats 1K or 2K or

ELNYW800XX 1K or with Crosslinker





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TYPICAL SYSTEMS: New Construction - Dark Colours:

Substrate: MDF

ELPR170 Envirothane White Primer 1K or 2K + 5% 896-9901 Black (turns dark grey)

Sand using 320 grit sandpaper or fine sponge

ELPR170 Envirothane White Primer 1K or 2K + 5% 896-9901 Black (turns dark grey)

Sand using 400 grit sandpaper, refine with super fine sponges

1 or 2 coats EL100XX Series Envirothane 1K or 2K tinted to dark 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 Use stainless steel (304/316) equipment for all water based products. When switching **INFORMATION:** 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.

