

**PRODUCT CODES:** **ELUVC700 05, ELUVC700 10, ELUVC700 20, ELUVC700 30**

**AVAILABLE SHEENS:** ELUVC700 05 5 Gloss - Deat Flat  
ELUVC700 10 10 Gloss - Flat  
ELUVC700 20 20 Gloss - Low Gloss  
ELUVC700 30 30 Gloss - Satin

**NAME:** **ENVIROCURE 700 CLEAR UV TOPCOAT**

**DESCRIPTION:** EnviroCure 700 is an easy to apply waterborne UV cured clearcoat for use in industrial settings. The product air dries very quickly and can be used with conventional air or IR ovens with minimal flash times. Once the finish is cured under UV lights it is incredibly durable, scratch resistant, stain and chemical resistant and is ready to be packed and shipped immediately.

**USES:** Reduction is not required but the product may be reduced with water or ELRX010 Reducer to improve application characteristics depending on the equipment used. Product should be at room temperature and mixed thoroughly prior to application to ensure consistency and gloss.

**UV CURING:** After physical drying, the product needs to be cured with UV lights. Depending on the types of UV bulbs you have installed these curing recommendations may vary, please talk to your technical sales representative for more information about curing.

**Cure:** **500-600mJ UVA when using mercury lamps only**

**Note:** If you are using both mercury and gallium lamps in your curing setup the UVA dose can be much less (250-300mJ as well as 500-800mJ UVB). Please reach out to your technical sales rep. for information.

**SAFETY PRECAUTIONS:** The product itself does not contain any monomeric UV and is safe to be sprayed by hand (as well as machine) but caution should be taken during the curing phase to avoid looking at the UV curing light.

**RECOMMENDED APPLICATION:**

Spray type:	Air Assist Airless
Fluid Pressure:	400-600 PSI
Atomizing Air:	20-25 PSI (triggered)
Tips:	Kremlin: by hand 06114 or 09114, by machine 06154 or 09154 Wagner: by hand 1150 or 1350, by machine 1180 or 1380 Graco/CA and others: by hand 511 or 513, by machine 611 or 613

Spray type:	Airless
Fluid Pressure:	2000-2500 PSI
Tips:	By hand: 408, fine finish or ultra finish By machine: Kremlin Skill Tip 09-17

**RECOMMENDED****APPLICATION:**

Spray type: HVLP (Turbine)

Atomizing Air: Max

Needle: 1.5-1.8

Reduction: Water if desired

Spray type: Cup Gun (gravity)

Air Pressure: 30-40 PSI

Tips: 1.8

Reduction: Water if desired

Wet Film Build: 4-6 mils

Grams per 1/10 sq. metre: (250x400mm board) 8.5-11g

Number of Coats: 2-3 depending on desired look

Maximum Dry Film Build: 6 mils

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

\*for colder temperatures, add water or warm material prior to spraying

**PHYSICAL****PROPERTIES:**

Specific Gravity: 1.01 ± 2%

Viscosity: 1500-2000 cps. at 20°C

Solids Content: 30% by weight

Pot Life: None

Flash Point: >75°C

VOC's: 20 g/L, 0.17 lbs/gal

VOC's (Less Exempt): 70 g/L, 0.59 lbs/gal

**SANDING:**

Sand raw wood 180 grit. Sand ELUVC700 XX between coats with 320-400 grit sandpaper.

**DRYING TIMES:****Air dry:**

(20°C/68°F)

Dry to Touch 10 Minutes

Dry to Sand Requires UV cure

Dry to Stack Requires UV cure

Note: Good gentle air movement (not a hurricane) with a 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 can greatly extend dry times.

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

Dry to Touch <5 Minutes

Dry to Sand Requires UV cure

Dry to Stack Requires UV cure

<b>Sun-Spot IR Cure:</b> <b>(Recommended)</b>	Flash off Flatline Cure (Infinite mode)	<1 minute 140F (60C) Target Board Surface Temp.
	Rack Cure (Indirect no probe mode) Cool Down Product is dry to sand (or stack) after curing	5 Minutes @10% power Not Needed, direct to UV cure

**TYPICAL SYSTEMS:**

**Stain System:**

Substrate: Various Woods, check adhesion on oily woods (teak, ipe, brazilian cherry, etc.) prior to finishing  
Water based Wiping or Spray Stain, ELSWB104 or ELSSB100  
ELUVC700XX Envirocure 700 Clear UV Topcoat  
Dry, Cure and Sand using 320 grit sandpaper  
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**Clear System**

Substrate: Various Woods, check adhesion on oily woods (teak, ipe, brazilian cherry, etc.) prior to finishing  
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**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.