

product information

U4PA-CLE25

UV STYRENE UNSATURATED POLYESTER BASECOAT FINE MUSICAL INSTRUMENTS

Cardinal's U4PA-CLE25 is a solventborne high build UV curable styrene unsaturated polyester basecoat. This product can cure with UV or peroxide cure. It exhibits sag resistance, great sanding properties and fast cure speed.

TYPICAL USES:

BENEFITS:

· Fine musical instruments

- · Sag Resistance
- · High Build
- · Great Sandability
- · Cure Speed

CURED FILM PROPERTIES:

Testing was conducted on a variety of different wood types which had been sealed, filled and basecoated with U4PA-CLE25 and UV cured for 2 minutes with a 400W mercury bulb 12° from the light.

	TEST	METHOD	PARAMETERS	RESULT
	Adhesion	ASTM D3359	Cross-hatch tape	0% failure
-	Hardness	ASTM D3363	Pencil	2H-3H
	Humidity	ASTM D2247	50 hrs	No effect

APPLICATION:

SPRAY

- Seal, fill and sand before applying basecoat.
- Apply finish with a fine finish spray gun setup using the necessary amount of atomizing air pressure to form a fine spray.
- Recommended spray gun settings would be 6" fan approximately 9"-12" from the substrate.
- Apply the finish with an overlapping spray technique two times for one coat.
 Avoid getting the gun to close to substrate to prevent air entrapment (bubbles)
- Apply approximately 2-3.0 dry mils (5-10 wet mils).
- 6. Allow to flash for 10 minutes before UV curing.
- Depending on Light intensity cure the finish following the cure conditions listed.
- Once cured topcoat with Cardinal's U4PA-CLE22 UV Gloss Topcoat or 2079-CLE17937 Gloss Lacquer.

Note:

These recommendations are only a suggestion and do not imply that other products and techniques currently being used won't work. All procedures and materials used must be tested and approved by the applicator. TYPE: Solventborne UV Styrene Unsaturated Polyester

COMPONENTS: One or Two

CoLors: Clear

GLOSS: Semi-gloss

COVERAGE: At 1.0 mil DFT, 65% transfer efficiency(TE)

Is 670 ft2/gal.

Calculation: 1604 ft2/gal x % volume solids x TE + DFT: VOC MixED: 178 grams/liter = 1.48 lbs/gal minimum.

PEROXIDE CURE: 2% MEKP and 1% Cobalt

SOLIDS

FLASH POINT: 24°F TCC

SHELF LIFE: 1 year from date of manufacture in factory

sealed container.

Viscosity: 30-35 seconds in Zahn 2

SPRAY-able Pot Life: NA

RECOMMENDED DFT: 2.0 - 5.0 mils

(depending on required finish)

CURE: Air Dry

Tack free 3 min. Time to Cure 10 min.

Cure conditions: 2 minutes UVA 3.18 J UVB 1.80 J

Peroxide cure allow for 48 hours curing. (At 1.0 mils dry film thickness, 78° F, 50% RH)

This coating must be used only in a well ventilated area!

Keep this coating away from any and all sources of ignition!

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SURFACE PREPARATION AND SEALING: The most important steps in a successful coating process are cleaning and sealing. The woods surface should be free of any dust or dirt before application of sealer. If a pore filler is being used the the

Cleaning the substrate: The surface of wood should be cleaned with either acetone or Mineral spirits to remove any oils, grease or other contaminants. The surface must be thoroughly dry before painting. Air quality regulations have limited the allowable emissions from cleaning operations.

Plastic - Any vinyl or other plastic products that might be coated over with this finish should have the adhesion verified before use.

SEALER SELECTION:

PRODUCT NO.	DESCRIPTION	FUNCTION
6759-CLE19669	Urethane Isolante Sealer	Sealing the wood surface to accept a top coat or fillers.

RELATED PRODUCTS:

PRODUCT NO.	DESCRIPTION		
U1PA-FE02	UV curable gel pore filler		
U4UA-CLE15	UV Curable Urethane satin clear		
U4PA-CLE22 UV Gloss Polyester			
1600-02 Medium Urethane Reducer			

TROUBLE SHOOTING:

PROBLEM CAUSE Blisters, pin holes or Entrapped air. solvent pop Entrapped solvent		REMEDY Eliminate water – Check airlines, Increase atomization, decrease film build. Pull gun further away from substrate		
Fish-eyes	Substrate contamination.	Clean and prepare substrate.		
Blushing Humid conditions.		Use Cardinal's 1200-11 lacquer thinner or add anti blushing additive.		
Poor Improper surface adhesion preparation.		See surface preparation section.		
Gloss Variation in application, cure variation schedule and humidity.		Consistent gloss depends upon consistent process.		

APPLICATION EQUIPMENT: Most air quality regulations require the paint application transfer efficiency to be 65% or better. This generally means using electrostatic or high volume low pressure (HVLP) spray guns. Otherwise, conventional pressure feed, airless or air assisted airless spray equipment can be used. Air supply lines need water and oil traps.

EQUIPMENT CLEAN-UP: Clean up should be done as soon as possible keeping in mind the pot life of the mixed paint. Air quality regulations have limited the allowable emissions from cleaning operations.

PRODUCT LIMITATIONS:

 This U4PA-CLE25 was design for fine musical instrument and the normal environmental condition that they would be exposed. All precautions should be taken to avoid extreme conditions such as: excessive heart, extended cold temperatures, chemicals which would damage coating or excessive abrading with guitars strap and other abrasive objects.

SAFETY: Refer to the product's Material Safety Data Sheet (MSDS) for complete safety information.

Contains organic solvents. Use with adequate ventilation. Do not breathe vapors or spray mists. If component TLVs are exceeded, a NIOSH approved air supplied respirator is advised. See MSDS for TLV information.

Contents are FLAMMABLE. Keep from heat, sparks or open flame.

Allergic reactions are possible. Avoid use by persons with respiratory problems.

Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

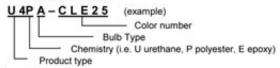
FIRST AID:

Eye contact: flush immediately with plenty of water for at least 15 min. and get medical attention.

Skin contact: wash thoroughly with soap and water for 5 minutes.

If swallowed, do not induce vomiting and get medical attention immediately.

PRODUCT IDENTIFICATION



D12TL

IMPORTANT: Warranty and Disclaimer — The performance characteristics of these products vary according to product application, operating conditions, materials applied to or with and use. Since these factors can affect results, we strongly recommend that you make your own test to determine to your satisfaction whether the product is of acceptable quality, has not been affected by storage or transport and is suitable for your particular purpose under your own operation conditions prior to using any product in full scale production. Seller warrants the products to be free from defects in materials and workmanship. SUCH WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY. OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. No representative of ours has authority to waive or change this provision, which applied