

product information

LUTHIERLAC2079-CLE17937 FINE MUSICAL INSTRUMENT LACQUER

Cardinal's Luthierlac 2079-CLE17937 is solventborne gloss nitrocellulose lacquer designed specifically for the fine musical instrument finishes. This product exhibits a high degree of toughness, ease of application, fast dry, cold checking resistance and outstanding buffing properties that result is beautiful clear glossy finishes.

TYPICAL USES:

BENEFITS:

· Fine musical instruments

- Toughness
- · Cold Checking resistance
- Buffing properties
- DOI

CURED FILM PROPERTIES:

Testing was conducted on a variety of different wood types which had been sealer with 2059-CLE18773. The coating was air dried for seven days before testing.

<u>TEST</u>	<u>METHOD</u>	<u>PARAMETERS</u>	RESULT
Adhesion	ASTM D3359	Cross-hatch tape	0% failure
Hardness	ASTM D3363	Pencil	H - 2H
Humidity	ASTM D2247	50 hrs	No effect
Cold Checking	NA	10 cycles from 25°C to -5°C with 8 hr. intervals	No effect
Imprinting	NA	120° F for 1 hour with 1lb weight on cheese cloth	Slight imprinting

APPLICATION:

SPRAY

- 1. Seal the wood using Cardinal's 2059-CLE18773 vinyl nitro sealer.
- 2. Scuff sealer lightly with scotch brite or 400 grit sandpaper.
- 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)
- 6. Apply approximately 0.5-1.0 dry mils (5-10 wet mils) each coat.
- Five to seven coats recommended. Allow seven days air dry under standard conditions to fully harden.

FINAL FINISH

- Once the coat has been air dried for seven days the surface needs to be prepped for buffing.
- Sand the finish with a variety of different fine grit sand papers removing any blemish or contaminant. Start with 600, then work up the final wet sand of 1000-2000.
- Buff the finish using a variety of fine finish wheels with the Mezerna 16-18 buffing compound. The speed on the wheel should be between 750-1000 rpm.
- 4. For final finish use a fine polishing cloth with a water based polish compound.

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: Nitrocellulose Lacquer.

COMPONENTS: One.

CoLors: Clear

GLoss: High

MINIMUM ORDER: 1 gal. of 2079-CLE17937.

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

Is 109 ft²/gal.

Calculation: 1604 ft2/gal x % volume solids x TE ÷ DFT

VOC MIXED: 727 grams/liter = 6.05 lbs/gal minimum.

SOLIDS:

Viscosity: 20-25 seconds in Zahn 2

SPRAY-able Pot Life: NA

RECOMMENDED DFT: 3.0 – 10.0 mils

(depending on required finish)

CURE: Air Dry

Tack free 10 min.
Dry to handle 30 min.
Dry hard 24 hours.

(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!

Continued on page 2

So. El Monte, CA 1329 Potrero Ave., 91733 • (323) 283-9335 • (626) 444-9274 • Fax: (626) 444-0382

Phoenix, AZ 3816 E. Superior Ave., 85040 • (602) 437-2401 • Fax: (602) 437-9251
San Jose, CA 890 Commercial St., 95112 • (408) 452-8522 • Fax: (408) 452-0318
Denver, CO 1195 E. 64th Ave., 80229 • (303) 286-1876 • Fax: (303) 286-1878
Lakeville, MN 21326 Heywood Avenue 55044 • (952) 469-6021 • Fax: (952) 985-5052

Maryland Heights, MO 44 Worthingon Access Drive 63043 • (314) 878-3010 • Fax: (314) 878-0903

Charlotte, NC 7403 North Tryon Street 28213 • (704) 596-0926 • Fax: (704) 596-8182

Warren, PA 4 Harmer Street, 16365 • (814) 723-0721 • Fax: (814) 723-7556

Dallas, TX 4606 Brass Way 75236 • (214) 333-9801 • Fax: (214) 333-9831

Woodinville, WA 19230 144th Avenue N. E., 98072 • (425) 483-5665 • Fax: (425) 483-5401

NO WARRANTY EXPRESSED OR IMPLIED, ACCEPTABILITY TO BE DETERMINED BY USER, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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
2059-CLE17937	,	Sealing the wood surface to accept a top coat or fillers.

RELATED PRODUCTS:

PRODUCT NO.	DESCRIPTION	
4760- Filler	Pore filler. Available in a variety of different wood tone colors	
1200-08	Medium lacquer thinner	
1200-11	Blushing resistant lacquer thinner	

TROUBLE SHOOTING:

PROBLEM	CAUSE	REMEDY	
Blisters, pin holes or solvent pop	Water contamination. Entrapped air. Entrapped solvent	Eliminate water – Check airlines. Increase atomization, decrease film build. Pull gun further away from substrate	
Craters	Contaminated ambient air, e.g., silicone mist, dust.	Locate and eliminate source of contamination.	
Fish-eyes	Substrate contamination.	Clean and prepare substrate.	
Blushing	Humid conditions.	Use Cardinal's 1200-11 lacquer thinner or add anti blushing additive.	
Poor adhesion	Improper surface preparation.	See surface preparation section.	
Gloss variation	Variation in application, cure 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 2079-CLE17937 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

2 0 7 9 - CLE17937 (example)

Color number

Gloss: 90°+ = high gloss
Special: e.g., 8 = high hide

Product type

F11TL_p