

LV CLEAR

DESCRIPTION: LV Clear is a high-solid urethane clearcoat designed for fast dry, high productivity and exceptional gloss, regardless of repair size. Designed for application over Lesonal 1K and Lesonal Basecoat SB, with a ready to spray VOC of 1.9 lb/gal.





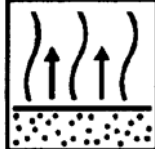

PRODUCT & ADDITIVES:

- PRODUCT:** LV Clear
- HARDENERS:** —LV Clear Hardener; a special hardener made for LV Clear.
—LV Clear Hardener Fast; a fast curing hardener to speed the curing for medium to small repairs.
- REDUCERS:** —LV Clear Reducer; a special reducer made for LV Clear.
—LV Clear Reducer Fast; a fast dry reducer used to speed the dry times for spot repairs.
- ADDITIVES:** —Lesonal Flex Additive; an additive designed to increase clearcoat flexibility for use on flexible plastic parts.
—Lesonal Mat Clear; a special clearcoat with a matt finish. The gloss level of LV Clear can be reduced with the blending of Lesonal Mat Clear. The main application is on plastic parts. See Technical Data Sheet, "Lesonal Mat Clear". The ratios will remain the same for the desired gloss levels in LV Clear.

BASIC RAW MATERIALS:

LV Clear: polyester resin
LV Clear Hardener: polyisocyanate resins
LV Clear Reducers: special blended chlorinated solvents

APPLICATION:

-  Contains acrylic resin, butyl acetate, methyl amyl ketone and other ingredients. When mixed, LV Clear contains isocyanates. Wear protective clothing and utilize full fresh air fed hood.
-  2:1:20%
LV Clear
LV Clear Hardener
LV Clear Reducer
-  Use the Lesonal Measuring Stick #4 (Black).
-  2x1
HVLP Siphon
0.071"–0.087" (1.8–2.2 mm)
HVLP Gravity
0.051"–0.059" (1.3–1.5 mm)
Max 10 psi (max 0.8 bar)
-  5–10 minutes at 70°F (20°C)
-  LV Clear Hardener
10 hours at 70°F (20°C)
30 minutes at 140°F (60°C)
LV Clear Hardener Fast
6 hours at 70°F (20°C)
20 minutes at 140°F (60°C)

LV CLEAR

SUITABLE SURFACES:

- Lesonal 1K Solid, Metallic and Pearl Colors: after a flash-off time of 15–20 minutes at 70°F (20°C).
- Lesonal Basecoat SB Solid, Metallic and Pearl Colors: after a flash-off time of 15–20 minutes at 70° F (20°C).
- Lesonal 3.5 Polyurethane: after a flash of 15 minutes.
- Existing finishes, in the case of spot repairs and blending.

MIXING RATIOS:

- 2 parts by volume of LV Clear
 - 1 part by volume of LV Clear Hardener
 - 20% by volume of any LV Clear Reducer
- For easy and accurate mixing, use the Lesonal Measuring Stick #4

NOTE:

When mixing LV Clear for flexible plastic parts, mix LV Clear 4:1 with Lesonal Flex Additive (Measuring Stick #3). This mixture must then be further mixed 2:1:20% with the appropriate LV Clear Hardener and Reducer.

SPRAYING VISCOSITY:

13–14 sec. ZAHN cup #2 (12–13 sec. DIN cup #4) at 70°F (20°C).

POT LIFE:

Two hours at 70°F (20°C)

SPRAY GUN & PRESSURE:

	Fluid Tip	Spraying Pressure	Fluid Pressure
HVLP Pressure Feed	0.039"–0.047" (1.0–1.2 mm)	max 10 psi (max 0.8 bar)	8–10 psi (0.6–0.8 bar)
HVLP Siphon Feed	0.071"–0.087" (1.8–2.2 mm)	max 10 psi (max 0.8 bar)	
HVLP Gravity Feed	0.051"–0.059" (1.3–1.5 mm)	max 10 psi (max 0.8 bar)	

APPLICATION METHOD:

Apply two single flowing coats. The first coat should be applied with sufficient flow, but should not be applied too heavily. After the stated flash-off time, apply the second coat.

FLASH TIMES:

5–10 minutes at 70°F (20°C). This product does not rely solely on solvent evaporation for its initial drying; therefore, the product will feel wet to the touch after the stated flash time. You may proceed with the application of a second coat without fear of inducing solvent popping.



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DRYING TIMES: Below is a table showing the drying times of LV Clear.

Metal Temp.	Drying	LV Clear Hardener	LV Clear Hardener Fast	Hardener Fast Reducer Fast
70°F (20°C)	Dust Free	40 min	30 min	25 min
	Dry to Handle	10 hr	6 hr	5 hr
100°F (38°C)	Dust Free	20 min	15 min	15 min
	Dry to Handle	4 hr	3.5 hr	3 hr
140°F (60°C)	Dust Free	5 min	5 min	5 min
	Dry to Handle	30 min	20 min	15 min

NOTE: No flash time is required prior to force dry. After the last coat of clear is applied, immediately bake at 140°F (60°C).

RECOATABILITY: LV Clear can be recoated with itself at any stage. Sanding will become necessary after 12 hours.

FILM THICKNESS: Approximately 1.2–1.4 mils per single coat.

COVER RATE: Approximately 110 sq. ft./liter of unmixed paint at a film thickness of 2.8 mils. It is a requirement that LV Clear be applied at a film thickness of approximately 2.4–2.8 mils, this should be done by applying 2 coats.

POLISHING: Dust and minor surface defects can be polished out after a dry time of 12 hours at 70°F (20°C) or after a 45 minute bake at 140°F (60°C) metal temperature, followed by additional 1-1/2 hour cool down at 70°F (20°C). Carefully sand out dust particles with #10 micron (#P1500) grit paper wet, and then polish the area manually or mechanically.

NOTE: When heavy color sanding and rubbing is required, it may be necessary to apply one extra coat of LV Clear.

DECALS: Decals can be applied after 48 hours at 70°F (20°C).

LETTERING: Painted striping or lettering on LV Clear must be applied within 48 hours for good adhesion. After 48 hours, scuff with a grey scuffing pad. Thorough degreasing is recommended prior to any striping or lettering.



LV CLEAR

STOCK KEEPING:

COLOR: Clear

CONTAINER SIZE:

LV Clear: 1 gallon (3.785 lt)

LV Clear Hardeners: 1 quart (0.8 lt)

LV Clear Reducers: 1 gallon (3.785 lt)

SHELF LIFE:

LV Clear: Six months if stored unopened at 70°F (20°C).

LV Clear Hardeners: Six months if stored unopened at 70°F (20°C).

LV Clear Reducers: Six months if stored unopened at 70°F (20°C).

SAFETY ASPECTS:

READY TO SPRAY VOC:

(2:1:20%)

LV Clear

LV Clear Hardeners

LV Clear Reducers: 1.9 lb/gal 230 g/liter

NOTICE:

Do not handle until the Material Safety Data Sheets have been read and understood. Regulations require that all employees be trained on Material Safety Data Sheets for all chemicals with which they come in contact. The manufacturer recommends the use of protective equipment when mixing and spraying this material. Protect skin with gloves and spray suit, wear safety glasses or goggles when mixing, and wear a full hood fresh air fed respirator while spraying.