

Concept® LV Acrylic Urethane

CLV

CONCEPT® LV (CLV) Acrylic Urethane is a premium quality, single-stage, two component refinish product designed to spray at 3.5 VOC. It is available only in single-stage solid colors and can be used over all properly prepared OEM finishes and cured air dried finishes.

CONCEPT® LV Color is designed for use in standard air dry, high air flow or downdraft booths and force dry booths. CONCEPT® LV Color can be used for spot, panel, and overall repair plus offers the option of being clearcoated if desired.



Features

- Excellent Color Match
- Can Be Air Dried or Force Dried
- Premium Gloss

Advantages

- Invisible Repairs
- Versatile
- Matches Luxury Car Finishes

Benefits

- Can Match Virtually Any Color
- 3.5 VOC

Compatible Surfaces

CONCEPT® CLV may be applied over:

- Cured Air Dry Finishes (*must be sanded and lacquers must also be sealed*)
- OEM Basecoat/Clearcoat (*must be sanded*)
- OEM Enamels (*must be sanded*)
- OEM & Refinish Lacquers (*must be sanded & sealed*)
- DPX170/171 Non Chrome Self Etching Primer (*must be sealed or primed afterwards*)
- DPX801 Universal Plastics Adhesion Promoter – *See P-194 for detail*
- DS1002 UV Primer
- NCP270/NCP271 Corrosion Resistant Primer (*not in Rule 1151 area*)
- NCP280 Corrosion Resistant Primer
- NCS1990 Wet-on-Wet Sealer (*not in Rule 1151 area*)
- SU4903 Advanced Plastic Bond - *See OC-1*
- SUA4903 Advanced Plastic Bond - *See OC-1*
- SX/SXA1050 Adhesion Promoter
- SX1056 Flexible 2K Sealer
- SX1057 Flexible 2K Surfacer
- SX1080 2K Rollable Surfacer LV
- V-SEAL™ LV DSLV302x Acrylic Urethane Sealer
- V-Prime™ LV DPLV305x Acrylic Urethane Surfacer

Required Products

	Hardener
High Solids Hardener	DCX61
	DT Exempt Reducers
Cool Temperature (60 - 70°F / 16 - 21°C)	DT1845
Medium Temperature (65 - 80°F) (18 - 27°C)	DT1850
Hot Temperature (75 - 90°F / 24 - 32°C)	DT1855
	Accelerator/Extender
Accelerator	DX84
Extender	DX87



Directions for Use

Surface Preparation:



- CLV colors are designed to be applied over properly cleaned, sanded and primed surfaces. See the Compatible Surfaces section for an appropriate primer.
- Wash painted surfaces thoroughly with soap and water to remove water-soluble contaminants. Then clean with appropriate DX Cleaner (see P-178) or SX1005 0.4 VOC Cleaner.
- Sand with 400-600 grit sandpaper or equivalent.
- Re-clean with DX Cleaner or SX1005 0.4 VOC Cleaner. Prime or seal as needed.

Mix Ratio:



Standard Ratio

CLV Color	DCX61	DT Exempt Reducer	DX84/DX87
2	1	5-10%	1 oz.

Add 5% – 10% by volume DT Exempt reducer. Select the appropriate exempt reducer for the application temperatures inside the shop.

Flexible Ratio

If the part is on the vehicle, no flex agent is needed. If the part is off the vehicle, mix *CONCEPT*® LV Color using the below ratio:



CLV Color	DT Exempt Reducer	DCX61 Hardener	SLV814 Flexibilizer	DX84 or DX87
2	1	2	1	+ Up to 1oz per RTS qt.



PotLife: **Standard Ratio**, 1 – 2 hours at 70°F (21°C)
Flexible Ratio, 1 hour at 70°F (21°C)
 For best pot life, add hardener last.

Tinting:

CLV Color may be tinted with other CLV Colors only.

Additives:



DX84 Accelerator or DX87 Extender must be added, 1 oz per RTS quart of CLV color. Choose the additive combination based on the conditions below:

Air Dry Up to 75°F (24°C): Add 1oz. DX 84
 Baking or Air Dry 75°F (24°C) and Above: Add 1/2 oz DX 87 and 1/2 oz DX 84

DX 73 Fisheye Eliminator, when necessary, can be used in CLV Color up to 1/2 ounce per RTS quart.

Spraygun Set-up:



Apply: 2 – 3 coats or until hiding is achieved
 Fluid Tip: 1.3 – 1.5 mm or equivalent
 Air Pressure: 10 PSI at the cap for HVLP guns
 45 – 55 PSI at the gun for conventional guns

Directions for Use

Drying Times:



Between Coats:	3 – 7 minutes
Dust Free	50 – 70 minutes
Tack Free	2 – 3 hours
Air Dry:	6 – 8 hours 70°F (21°C)
Purge Time	0 – 10 minutes
Force Dry	40 minutes at 140°F (60°C) 20 minutes at 160°F (71°C)



IR (Infrared)	
Medium Wave:	10 – 15 minutes depending on color
Short Wave	8 minutes depending on color

Blending:



CLV Color may also be blended by taking the CLV Color that you have in your gun cup and reduce the mixture with an equal amount of **DX840 Blend Ease**. Apply this “over” reduced material to the dry edges. If additional blending is necessary, reduce the blend mixture with another equal part of DX830.

Polishing:



After 24 hours @ 70°F (21°C) solid colors can be sanded with 1200 - 2000 grit sandpaper and compounded. In all cases, use a fine compound and polishing pad (See DRX Formula Finishing Systems Bulletin P-179).

Note: If sanding and/or polishing is required, an extra coat of **CONCEPT® LV Color** is recommended.

Repair and Recoat:



Allow to dry 8 hours @ 70°F/21°C or force dry for 40 minutes at 140°F (60°C) and allow to cool before sanding. Additional coats of primer, color, or clear may then be applied.

Clearcoating:



The exceptional gloss of **CONCEPT® LV Color** will likely eliminate the need for clearcoating. However, if a clearcoat is desired; DCU 2035 3.5 VOC Clear or DCD 35 3.5 Compliant Clear may be applied after 1 hour dry, but not longer than 36 hours over **CONCEPT® LV Colors**. After 36 hours CLV must be sanded before applying clearcoat.

Technical Data:

Total Solids by Volume (RTS)	52%
Sq. Ft Coverage / US Gal (RTS)	834 sq ft @ 1mil (100% Transfer Efficiency)
Dry Film build per coat	1.0 – 1.5 mils
Recommended dry film build	2 – 4 mils

RTS Combinations:	CLV	CLV : DCX61	CLV : DRTS CT18XX : DCX61 :
		+ DT18XX + DX84/DX87	SIV814 + DX84 or DX87
Volume Ratio:	Package Color (as is)	2 : 1 + 10% + 1 oz/qt	2 : 1 : 2 : 1 + 1 oz/qt
Applicable Use Category	Single-Stage Ctg	Single-Stage Ctg	Single-Stage Ctg (flexed)
VOC Actual (g/L)	452 - 515	330 - 371	221 - 260
VOC Actual (lbs/gal)	3.77 - 4.30	2.76 - 3.10	1.85 - 2.18
VOC Regulatory (less water less exempt) (g/L)	452 - 515	364 - 419	304 - 354
VOC Regulatory (less water less exempt) (lbs/gal)	3.77 - 4.30	3.04 - 3.50	2.54 - 2.96
Density (g/L)	1005 - 1353	1045 - 1255	1098 - 1213
Density (lbs/gal)	8.39 - 11.29	8.72 - 10.47	9.16 - 10.12
Volatiles wt. %	33.4 - 49.3	35.1 - 44.7	46.4 - 52.5
Water wt. %	0.0	0.0	0.0
Exempt wt. %	0.0	8.7 - 10.4	28.1 - 31.1
Water vol. %	0.0	0.0	0.0
Exempt vol. %	0.0	9.0	27.1

Important:

The contents of this package must be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels of all components, since the mixture will have the hazards of all its parts. Improper spray technique may result in a hazardous condition. Follow spray equipment manufacturer's instructions to prevent personal injury or fire. Follow directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION (412) 434-4515; IN CANADA (514) 645-1320

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the general public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to PPG Industries. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does PPG Industries warrant freedom from patent infringement in the use of any formula or process set forth herein.

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