



GLOBAL REFINISH
SYSTEM

Product Information

2K Chromatic Sealer LV (2.8 VOC)

DLV8081 White

DLV8085 Gray

DLV8087 Black

DLV8088 Red

DLV8089 Yellow

DLV8090 Blue

Product Description

The 2K Chromatic Sealer LV's (DLV80xx) are premium quality primer sealers suitable for the advanced technology finishes used in today's refinish bodyshops.

The fast drying 2K Chromatic Sealer LV's have superior flow properties and excellent gloss holdout. A variety of low VOC colors and 2K Chromatic grays can be achieved by intermixing the six sealer color choices. The sealers can be used over sanded original finishes and/or properly prepared and treated bare steel, aluminum, fiberglass and plastic.

Preparation of Substrate



- In all cases, wash all surfaces to be painted with soap and water, then apply the appropriate Global cleaner. See EU-134 Global Cleaners bulletin for selection and usage instructions. Ensure that the substrate is thoroughly cleaned and dried both before and after application work.
- Original Paintwork should be sanded using U.S. 360 / European P400 grit discs (dry) or U.S. 400 / European P600 grit paper (wet). Exposed metal should be spot-primed with a suitable bare metal primer (see below).
- Aluminum, Bare Steel and Galvanized Steel must be clean, rust-free and abraded thoroughly using U.S. 180 / European P180 to U.S. 240 / European P280 grit paper (wet). These substrates **must be primed with a Global Etch Primer**. Additional film build over etch primers is strongly recommended, a minimum of 1.5 mils of the 2K Chromatic Sealer LV must be applied in two coats. With the higher film build of 2K Chromatic Sealer LV, additional flash time for the sealer may be necessary.
- Electrodeposition Primer must be thoroughly cleaned and may then be directly overcoated with the 2K Chromatic Sealer LV as a Wet-on-Wet Sealer without abrading.
- Polyester Body Fillers should be dry sanded using U.S. 240 / European P280 grit paper.
- Fiber Glass and SMC should be dry sanded using U.S. 240 / European P280 grit paper.
- Plastic should be dry sanded with U.S. 400 / European P600 (use a finer grit for softer plastics) and primed first with a PPG Plastic Adhesion Promoter.

APPLICATION GUIDE:

Mix Ratio:



DLV80xx 2K Sealer: 3 Vols.
DLV8291 Catalyst: 1 Vol.
Compliant Thinners: 1 Vol.

Warning: Additional film build on etch primed sections is strongly recommended. A minimum of 1.5 mils of the 2K Chromatic Sealer LV must be applied in two coats. With the higher film build of 2K Chromatic Sealer LV, additional flash time for the sealer may be necessary.



Pot Life

1 hour @ 70°F / 21°C

Thinner Selection:

D8764	Fast Compliant Thinner
D8774	Medium Compliant Thinner
D8767	Slow Compliant Thinner

Additives:



D814 Plasticiser

Ready-to-Spray DLV80xx 2K Sealer: 10 Vols
D814: 1 Vol

Spraygun Set-up:



Fluid Tip
Spray Viscosity

1.4 – 1.6 mm or equivalent
20 – 25 seconds #2 Zahn @ 70° F / 21°C

Spray Pressure:

<i>HVLP at air cap</i>	10 PSI
<i>Conventional at spray gun</i>	40 – 45 PSI

Number of Coats:



Apply
Film build per wet coat
Dried film build per coat

1-2 wet coats
2.5 mils
1.0 mils

Flash off at 68°F / 20°C:



Between Coats
Before Baking
Before Topcoating

5 – 10 minutes
5 – 10 minutes
15 minutes @ 70°F / 21°C for 1 coat
30 minutes @ 70°F / 21°C for 2 coats

After 72 hours, sealer must be sanded. If sanded film is below 1 mil, sealer must be reapplied.

Drying times:



Dust-free
68°F / 20°C

10 minutes



Dry to Handle
68°F / 20°C

1 hour



Tape Time
68°F / 20°C

1½ hours



IR (Infrared)
IR Medium Wave
IR Short Wave

10 minutes
5 minutes

APPLICATION GUIDE

Overcoat / Recoat



Envirobase or any Global Topcoat

15 minutes @ 70°F / 21°C for 1 coat
30 minutes @ 70°F / 21°C for 2 coats

After 72 hours, sealer must be sanded. If sanded film is below 1 mil, sealer must be reapplied.



Grade wet

U.S. 500 / P1000 grade paper

Grade dry

U.S. 500 / P1000 grade paper

Performance Guidelines

The use of HVLP spray equipment can give an increase in transfer efficiency of around 25% depending upon the make and model of equipment use.

For all substrates except unsanded electrodeposition primer, ensure that the surface is thoroughly sanded to the panel edge or an inch or two beyond the damaged area, whichever is the smaller.

Do not attempt spot repair on original or refinish thermoplastic applications, lacquer or 1K finishes.

Partially used cans of hardener must be carefully closed.

Technical Data

Total dry film build:

Minimum	1.0 mil
Maximum	1.5 mils
Film build per wet coat	2.5 mils
Dried film build per coat	1.0 mils

Theoretical coverage 550 sq.ft. per US gal.

Theoretical coverage in sq.ft./US gal. ready-to-spray (RTS), 1.0 mil dry film thickness

Percent solids by volume RTS 34.5

VOC

(2K Chromatic Sealer LV)	3.1 lbs per U.S. gallon / 376 gms per liter
(2K Chromatic Sealer LV: Hardener: Thinner, 3:1:1)	2.8 lbs per U.S. gallon / 336 gms per liter

Health and Safety:



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

- The contents of this package may have to 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 and MSDS's of all the components, since the mixture will have the hazards of all its parts.
- Improper handling and use, for example, poor spray technique, inadequate engineering controls and/or lack of proper Personal Protective Equipment (PPE), may result in hazardous conditions or injury.
- Follow spray equipment manufacturer's instructions to prevent personal injury or fire.
- Provide adequate ventilation for health and fire hazard control.
- Follow company policy, product MSDS and respirator manufacturer's recommendations for selection and proper use of respiratory protection. Be sure employees are adequately trained on the safe use of respirators per company and regulatory requirements.
- Wear appropriate PPE such as eye and skin protection. In the event of injury, see first aid procedures on MSDS.
- Always observe all applicable precautions and follow good safety and hygiene practices.

Global at a Glance

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Compliant Thinners : 1 Vol.

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Pot Life 1 hour @ 70°F / 21°C

Thinner Selection
D8764 Fast Compliant Thinner
D8774 Medium Compliant Thinner
D8767 Slow Compliant Thinner

Additives:



D814 Plasticiser **2K Sealer LV Ready-to-Spray: 10 vols**
D814: 1 vol

Air Pressure:



HVLP at the cap 10 PSI
Conventional at the gun 40 – 45 PSI
Fluid tip 1.4 – 1.6mm or equivalent

Application:



Apply 1 – 2 coats
Film build per wet coat 2.5 mils
Dried film build per coat 1.0 mils

Dry Times:



Between Coats 5 – 10 minutes
Before Baking 5 – 10 minutes



Dust-free
68°F / 20°C 10 minutes



Dry to Handle
68°F / 20°C 1 hour



Tape Time
68°F / 20°C 1½ hours



IR (Infrared)
Medium Wave 10 minutes
Short Wave 5 minutes



Overcoat with
Envirobase or any Global Topcoat 15 minutes @ 70°F / 21°C for 1 coat
30 minutes @ 70°F / 21°C for 2 coats

After 72 hours, sealer must be sanded. If sanded film is below 1 mil, sealer must be reapplied.

Chromatic Gray Mixing Chart

2K Chromatic Sealers LV

This chart can be used to mix the 2K Chromatic Sealer LV. The G1 – G7 ratios will help to achieve better hiding when used as a guide for mixing the 2K Chromatic Sealer LV.

Mix Ratio By Volume			Mix Ratio By Cumulative Weight							
			Grams				Parts			
Mix Ratio			¼ Pint	½ Pint	Pint	Quart	¼ Pint	½ Pint	Pint	Quart
G1	DLV8081	3	104	207	417	834	117	234	471	942
	DLV8291	1	134	266	535	1070	151	300	604	1209
	D8767	1	166	329	662	1324	187	372	748	1496
G2	DLV8081		98	196	396	792	111	221	447	895
	DLV8085	N/A	103	206	417	834	116	233	471	942
	DLV8291		133	265	535	1070	150	299	535	1209
	D8767		165	328	662	1324	186	371	748	1496
G3	DLV8081	2	69	138	278	556	78	156	314	628
	DLV8085	1	103	206	415	831	116	233	469	939
	DLV8291	1	132	265	533	1068	149	299	602	1207
	D8767	1	163	328	660	1322	184	371	746	1494
G4	DLV8081	1	35	69	139	278	39	78	157	314
	DLV8085	2	103	205	413	827	116	231	467	934
	DLV8291	1	132	264	531	1064	149	298	600	1202
	D8767	1	163	327	658	1318	184	369	743	1489
G5	DLV8085	3	102	204	412	824	115	230	465	931
	DLV8291	1	131	263	530	1060	148	297	599	1198
	D8767	1	162	326	657	1314	183	368	742	1484
G6	DLV8085	2	68	136	275	555	77	154	311	627
	DLV8087	1	102	204	411	822	115	230	464	929
	DLV8291	1	131	263	529	1058	148	297	598	1196
	D8767	1	162	326	656	1312	183	368	741	1482
G7	DLV8087	3	101	203	409	818	114	229	462	924
	DLV8291	1	130	262	527	1054	147	296	595	1191
	D8767	1	161	325	654	1308	182	367	739	1478

Emergency Medical or Spill Control Information (412) 434-4515-1300; 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.

PPG Automotive Refinish

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