

V-SEAL™ LV Acrylic Urethane Sealers

DSL3021 White
 DSL3025 Gray
 DSL3027 Dark Gray

V-SEAL™ DSL302x are premium quality, low VOC, high velocity, acrylic urethane primer sealers. They are available in white, gray and dark gray and are suitable for the advanced technology finishes used in today's refinish bodyshops.

These fast drying sealers have superior flow properties and excellent gloss holdout. DSL302x can be used directly over unsanded OEM E-Coat, sanded original finishes and/or properly prepared and treated bare steel, aluminum, fiberglass and plastic.

To optimize topcoat hiding a choice of 7 gray shades can be achieved by mixing the white, gray and dark gray sealers. For maximum hiding choice, the gray shades will be linked to all DELTRON® DBC formulas. These gray ranges will be referenced on formulas from G1 (white) through G7 (dark gray).



Features

- Fast Dry
- Strong color hold out

Advantages

- Quick to topcoat
- Less solvent penetration

Benefits

- Decreased booth time
- Maximum system gloss retention

Compatible Surfaces

DSL302x V-SEAL™ LV may be applied over:

- Properly cleaned and sanded fiberglass
- Properly cleaned E-Coat
- Cured and sanded OEM finishes
- Properly prepared and treated bare steel and aluminum
- DELTRON® plastic adhesion promoter or etch primer*
- DELTRON® 2K primer surfacer

* Additional film build over etch primer and plastic adhesion promoter is strongly recommended. A minimum of 1.5 mils of the DSL302x V-SEAL™ LV must be applied in two coats. With the higher film build of V-SEAL™ LV, additional flash time for the sealer may be necessary.

Required Products

	Hardener
Undercoat Hardener LV	DHLV3030
	Thinner
Normal Compliant Thinner	DT1845
Medium Compliant Thinner	DT1850
Slow Compliant Thinner	DT1855



DSL3021 / DSL3025 / DSL3027

Directions for Use

Preparation:



- Wash the area to be painted with soap and water, then clean with appropriate PPG Cleaner.
- Sand the bare metal areas completely with 180 – 240 grit abrasive. Sand old finishes with 320 – 400 grit dry by hand or machine or 400 – 500 grit wet. Exposed bare metal should be spot primed with a suitable bare metal primer.
- Re-clean with the appropriate PPG Cleaner followed by a PPG tack cloth to eliminate dirt prior to painting.
- Prime aluminum substrate within 8 hours.
- Prime carbon steel immediately after cleaning.

Mixing Ratio:



DSL302x : Compliant Thinner : DHLV3030 Hardener

3 : 1 : 1

Note: Additional film build over etch primer and plastic adhesion promoter is strongly recommended. A minimum of 1.5 mils of the DSL302x V-SEAL™ LV must be applied in two coats. With the higher film build of V-SEAL™ LV, additional flash time for the sealer may be necessary.

Pot life is 1 hour @ 70°F / 21° C

Tinting:

Not recommended

Additives:



SLV814 Universal Flexibilizer may be added with 10% SLV814 to the ready-to-spray DSL302x.

Application:



Apply: 1 – 2 wet coats

Air Pressure:

HVLP at air cap: 10 PSI
Conventional at spray gun: 40 – 45 PSI

Spray gun Set-up:



Fluid Tip: 1.4 – 1.6 mm or equivalent
Spray Viscosity: 20 – 25 seconds #2 Zahn @ 70°F / 21°C
Film build per wet coat: 2.5 mils
Dried film build per coat: 1.0 mils

Directions for Use

Drying times:



Between coats	5 – 10 minutes
Dust-free 70°F / 21°C	10 minutes
Dry to handle 70°F / 21°C	1 hour
Tape Time 70°F / 21°C	1½ hours



IR (Infrared)	10 minutes
IR medium wave	5 minutes
IR short wave	5 minutes



Before Topcoating	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.

Compatible Topcoats:

CONCEPT® LV (CLV) Acrylic Urethane Color
CONCEPT® (DCC) Acrylic Urethane
DELSTAR® (DAR/DXR 80) Acrylic Polyurethane Enamel
DELTRON® 2000 (DBC) Basecoat
*DELTRON® (DBU) Universal Basecoat**

* A minimum of 1 hour dry must be allowed prior to topcoating with DBU.

Equipment Cleaning:

Spray guns, gun cups, storage pots, etc. should be cleaned thoroughly after each use with any PPG General Purpose Solvent, Lacquer Thinner or DT Reducer.

Technical Data:

	DSL3021	DSL3025	DSL3027
Total Solids by Weight (RTS)	44.62%	44.21%	44.51%
Total Solids by Volume (RTS)	34.27%	34.21%	34.94%
Sq. Ft Coverage / US Gal (RTS)	550	549	560
Recommended wet film build per coat	2.5mils	2.5 mils	2.5mils
Recommended dry film build per coat	1.0mils	1.0 mils	1.0mils
RTS Combinations:	DSL302x :	DSL302x : DHLV3030 :	
	DHLV3030 : DT18xx	DT18xx + SLV814	
Volume Ratio:	3 : 1 : 1	3 : 1 : 1 + 10%	
Applicable Use Category	Primer	Primer	
VOC Actual (g/l)	177 – 183	165 – 170	
VOC Actual (lbs/gal)	1.48 – 1.53	1.37 – 1.42	
VOC Regulatory (less water less exempt) (g/l)	326 – 329	313 – 316	
VOC Regulatory (less water less exempt) (lbs/gal)	2.72 – 2.75	2.61 – 2.64	
Density (g/l)	1357 – 1373	1319 – 1385	
Density (lbs/gal)	11.32 – 11.46	11.01 – 11.56	
Volatiles wt. %	54.5 – 54.9	55.3 – 57.0	
Water wt. %	0.0	0.0	
Exempt wt. %	41.1 – 41.6	42.4 – 45.0	
Water vol. %	0.0	0.0	
Exempt vol. %	44.5 – 45.5	46.3 – 47.2	

ACHromatic Gray Mixing Chart

V-SEAL™ LV Acrylic Urethane Sealers

Use this chart as a guide to mix the G1 – G7 ratios to achieve better hiding when mixing the V-SEAL™ Acrylic Urethane Sealers.

Mix Ratio By Volume			Mix Ratio By Cumulative Weight Parts			
	Mix Ratio		1/4 Pint	1/2 Pint	Pint	Quart
G1	DSL3021	3	117	234	471	942
	DHL3030	1	151	300	604	1209
	DT1855	1	187	372	748	1496
G2	DSL3021	N/A	111	221	447	895
	DSL3025		116	233	471	942
	DHL3030		150	299	535	1209
	DT1855		186	371	748	1496
G3	DSL3021	2	78	156	314	628
	DSL3025	1	116	233	469	939
	DHL3030	1	149	299	602	1207
	DT1855	1	184	371	746	1494
G4	DSL3021	1	39	78	157	314
	DSL3025	2	116	231	467	934
	DHL3030	1	149	298	600	1202
	DT1855	1	184	369	743	1489
G5	DSL3025	3	115	230	465	931
	DHL3030	1	148	297	599	1198
	DT1855	1	183	368	742	1484
G6	DSL3025	2	77	154	311	627
	DSL3027	1	115	230	464	929
	DHL3030	1	148	297	598	1196
	DT1855	1	183	368	741	1482
G7	DSL3027	3	114	229	462	924
	DHL3030	1	147	296	595	1191
	DT1855	1	182	367	739	1478

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Urethane Sealers**

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

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