



GENESIS® LV

Single Stage System

Flat (LV1), Satin (LV3)
Semi Gloss (LV5), Gloss (GLV)

PRODUCT DATA SHEET

GENESIS® LV Single Stage System is a two-component urethane coating. This premium single stage system utilizes two mixing clears (GT1510 & GT1511) to reach multiple gloss levels (Flat, Satin, Semi-Gloss, and Gloss). The GENESIS® LV Single Stage System has high performance qualities that include extreme durability, resistance to stone chipping and a chemical / solvent resistant finish. GENESIS® LV can be taped in one hour and is ideal for use when applying multiple colors or striping. GENESIS® LV Single Stage System was designed for Fleet, OE, and Sign Manufacturing.



PERSONAL PROTECTION

- Read all labels before use.
- Refer to SDS for specific information.
- Wear positive-air respirator when mixing and applying.
- Wear a NIOSH approved dust particulate mask when sanding.
- Wear safety goggles, coveralls, and latex gloves when using product.



SURFACE PREPARATION

- **Bare Substrates** need to be treated with the appropriate Sherwin-Williams primer.
- **Wash** surfaces with a mild detergent in hot water. Rinse well and wipe dry with a clean cloth.
- **Solvent clean** with the appropriate Low VOC Surface Cleaner R7K158 or R7K156 and wipe dry with a clean cloth.
- **Sand** all areas to be finished
- **Treat** bare metal with a Sherwin-Williams conditioner or etching primer unless using a direct-to-metal undercoat. Check local regulations to verify etching primers are VOC compliant.



SUITABLE PRIMERS

- ULTRA-FILL® II Sealers, S56, S57, S58
- ULTRA-FILL® II Surfacer, P47
- SpectraPrime®/SpectraSeal® Color Sealer, P30
- DTM Epoxy Primers:
 - E2B931/E2W932/E2WA933
 - E2Y936/E2A960/E2W963
 - NP75/NP74W/NP76
- DTM Urethane Primers:
 - E2W817/E2B818/E2A819
 - E2W805/E2A820/E2W823
 - E2W840/E2A841



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EQUIPMENT

Gun Type

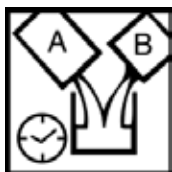
Conventional Gravity Feed
Conventional Pressure Feed
HVLP Gravity Feed
HVLP Pressure Feed
Reduced Pressure Gravity Feed
Reduced Pressure Feed

Nozzle

1.3-1.5 mm
0.8-1.1 mm at 8-14 oz/min
1.3-1.5 mm
0.8-1.1 mm at 8-14 oz/min
1.3-1.5 mm
0.8-1.1 mm

Air Pressure

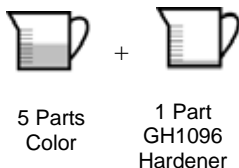
30-45 psi
30-45 psi
5-10 psi at cap
5-10 psi at cap
Follow Recommendations
Follow Recommendations



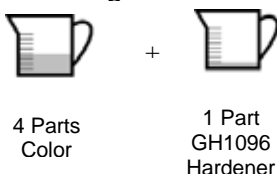
MIXING

- Stir or shake GENESIS® LV Single Stage color thoroughly before mixing.
- Add 3 oz GA1097/ GA1100 Accelerator per sprayable gallon for accelerated dry times.

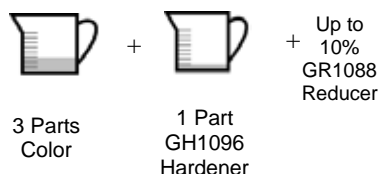
Flat (LV1) Flat Mixing



Satin (LV3) & Semi Gloss (LV5) Mixing Ratio



Gloss (GLV) Mixing Ratio



Optional: For LV1, LV3 & LV5 Mixing options, add up to ½ part reducer GR1088 or VS100 to lower viscosity.

POT LIFE

	Time	Temperature
Using 3 oz. of GA1097	2 Hours	at 75°F
Using 3 oz. of GA1100	30 Minutes	at 75°F



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APPLICATION

Overall

1. Adjust air pressure at the gun to 30-45 psi for gravity or pressure feed (adjust pot pressure to 5-10 psi for 8-14 fluid ounces per minute delivery). For HVLP adjust to 5-10 psi at the cap.
2. For Pressure/Gravity feed, apply 2 medium coats at a gun distance of 8-10 inches. Spray to hiding. For HVLP, apply 1 full wet coat with 70% overlap, applying the second coat in a cross-coat method. Recommended dry film thickness is 1.8 – 2.5 mils.
3. Clean spray gun immediately after use with Gun and Equipment Cleaner.

DRYING SCHEDULE

• Dry Film Thickness during testing 2.0 – 2.5 mils

	Air Dry with 3 oz. of GA1097				Air Dry with 3 oz. of GA1100			
	LV1	LV3	LV5	GLV	LV1	LV3	LV5	GLV
Handslick	36 Minutes	42 Minutes	20 Minutes	20 Minutes	10 Minutes	10 Minutes	10 Minutes	8 Minutes
Tack Free	3.5 Hours	3.5 Hours	5 Hours	3 Hours	25 Minutes	25 Minutes	25 Minutes	30 Minutes
Dust Free	3.5 Hours	3.5 Hours	5 Hours	3 Hours	25 Minutes	25 Minutes	25 Minutes	30 Minutes
Tape Free	7 Hours	7 Hours	7 Hours	3.5 Hours	1.5 Hours	1.25 Hours	1.75 Hours	1 Hour

• Dry Film Thickness during testing 2.0 – 2.5 mils

	Force Dry with 3 oz. of GA1097: 30 Minutes at 160°F				Force Dry with 3oz. of GA1100: 10 Minutes at 160°F			
	LV1	LV3	LV5	GLV	LV1	LV3	LV5	GLV
Handslick	5 Minutes	5 Minutes	5 Minutes	5 Minutes	5 Minutes	5 Minutes	5 Minutes	5 Minutes
Tack Free	10 Minutes	10 Minutes	10 Minutes	10 Minutes	10 Minutes	10 Minutes	10 Minutes	10 Minutes
Dust Free	10 Minutes	10 Minutes	10 Minutes	10 Minutes	10 Minutes	10 Minutes	10 Minutes	10 Minutes
Tape Free	30 Minutes	30 Minutes	30 Minutes	30 Minutes	30 Minutes	30 Minutes	30 Minutes	30 Minutes

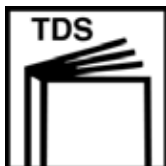
NOTES: Genesis® LV can be recoated with itself up to 72 hrs without scuff sanding. After 72 hrs scuff sanding is required.



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TECHNICAL DATA

LV1

Mixing Ratio by Volume	5:1	Pot Life	1 - 2 hours
Max VOC(with Toners) @ 5:1	2.10	Viscosity (sprayable) Gardener #2 Zahn Cup (ISO calibrated)	17 -22 seconds
Ready to Spray Volume Solids	44.6%	Recommended Dry Film Thickness	1.8 – 2.5 mils
Coverage @ 1 mil dry	715.9 sq ft/gal	Gloss 60° <i>Note: May vary by color & film build</i>	5-15

LV3

Mixing Ratio by Volume	4:1	Pot Life	1 - 2 hours
Max VOC(with Toners) @ 4:1	2.17	Viscosity (sprayable) Gardener #2 Zahn Cup (ISO calibrated)	17 -22 seconds
Ready to Spray Volume Solids	44.6%	Recommended Dry Film Thickness	1.8 – 2.5 mils
Coverage @ 1 mil dry	715.9 sq ft/gal	Gloss 60° <i>Note: May vary by color & film build</i>	25-35

LV5

Mixing Ratio by Volume	4:1	Pot Life	1 - 2 hours
Max VOC(with Toners) @ 4:1	2.38	Viscosity (sprayable) Gardener #2 Zahn Cup (ISO calibrated)	17 -22 seconds
Ready to Spray Volume Solids	44.6%	Recommended Dry Film Thickness	1.8 – 2.5 mils
Coverage @ 1 mil dry	715.9 sq ft/gal	Gloss 60° <i>Note: May vary by color & film build</i>	40-60

GLV

Mixing Ratio by Volume	3:1	Viscosity (sprayable) Gardener #2 Zahn Cup (ISO calibrated)	17 -22 seconds
Max VOC (with Toners) @ 3:1	2.03	Recommended Dry Film Thickness	1.8 – 2.5 mils
Ready to Spray Volume Solids	57.8%	Gloss 60° <i>Note: May vary by color & film build</i>	90
Coverage @ 1 mil dry	928.5 sq/ft/gal	Gloss 20° <i>Note: May vary by color & film build</i>	80
Pot Life	2 hours		



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GENESIS® LV1	<u>As Packaged</u>		<u>As Applied</u>	
	Lb/Gal	G/L	Lb/Gal	G/L
Density	9.28	1111	9.43	1129
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	54.4	63.3	50.6	58
Water	0	0	0	0
Exempt Compounds	40.8	46.3	39.4	43.7
	Lb/Gal	G/L	Lb/Gal	G/L
VOC Total	1.26	151	1.05	126
VOC Less Exempt	2.35	282	1.87	224
	Lb/Gal	KG/L	Lb/Gal	KG/L
HAPs	0	0	0	0

GENESIS® LV3 & LV5	<u>As Packaged</u>		<u>As Applied</u>	
	Lb/Gal	G/L	Lb/Gal	G/L
Density	9.44	1131	9.59	1149
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	48.7	58.8	45.4	53.1
Water	0	0	0	0
Exempt Compounds	29.7	34.2	30.4	33.4
	Lb/Gal	G/L	Lb/Gal	G/L
VOC Total	1.8	216	1.44	173
VOC Less Exempt	2.74	328	2.16	259
	Lb/Gal	KG/L	Lb/Gal	KG/L
HAPs	0	0	0.84	0.101

GENESIS® GLV	<u>As Packaged</u>		<u>As Applied</u>	
	Lb/Gal	G/L	Lb/Gal	G/L
Density	10.42	1248	9.02	1081
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	43.3	51.6	49.8	53
Water	0	0	0	0
Exempt Compounds	36.1	41.4	37.5	37.7
	Lb/Gal	G/L	Lb/Gal	G/L
VOC Total	.74	89	1.11	134
VOC Less Exempt	1.27	152	1.79	215
	Lb/Gal	KG/L	Lb/Gal	KG/L
HAPs	0	0	0	0



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LABEL CAUTION

GENESIS® LV Intermix Cautions:

DANGER! FLAMMABLE! VAPOR AND SPRAY MIST HARMFUL, OVEREXPOSURE MAY CAUSE LUNG DAMAGE. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION, EFFECTS MAY BE PERMANENT. HARMFUL IF INHALED – MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT. DRIED FILM OF THIS PAINT MAY BE HARMFUL IF EATEN OR CHEWED.

Contents are FLAMMABLE. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Do not smoke-Extinguish all flames, pilot lights, and heaters – Turn off stoves, electric tools and appliances, and any other sources of ignition. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: IF INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Call Poison Control Center, hospital emergency room, or physician immediately. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. May contain Lead which may cause birth defects, kidney, central and peripheral nervous system damage and blood effects. May contain Lead Chromate which can cause cancer. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. Do not apply on toys and other children's articles, furniture, or any interior surface of a dwelling or facility which may be occupied or used by children. Do not apply on any exterior surface of dwelling units, such as window sills, porches, stairs, or railings, to which children may be commonly exposed. FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.

GR1088 Reducer Cautions:

DANGER! HARMFUL OR FATAL IF SWALLOWED. EXTREMELY FLAMMABLE - VAPORS MAY CAUSE FLASH FIRES! HARMFUL IF INHALED - MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. IRRITATES EYES, SKIN AND RESPIRATORY TRACT. Before using, carefully read CAUTIONS on back panel.

Contents are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights and heaters – Turn off stoves, electric tools and appliances, and any other sources of ignition. VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

Cautions Continued:

FIRST AID: If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Do not induce vomiting. Call Poison Control Center, hospital emergency room, or physician immediately. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.

Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY.

To learn more about Sherwin-Williams Products, visit our website at oem.sherwin-williams.com
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