

## PRODUCT DATA SHEET

GENESIS® Lustral™ Single Stage System is a two-component polyurethane coating. This premium single stage system utilizes two mixing clears (GT1510 & GT1511) to achieve multiple gloss levels (Flat, Satin, Semi-Gloss, and High Gloss). The GENESIS Lustral Single Stage System delivers high performance qualities that include excellent durability, outstanding resistance to fading and chalking, and fast dry times that lead to improved productivity. GENESIS Lustral was designed for Sign Manufacturing, OE Manufacturing, and any other General Industrial application which requires a full gloss system.



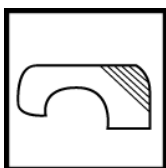
### PERSONAL PROTECTION

- 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

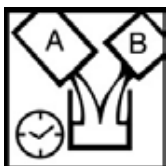
- **Bare Substrates** need to be treated with the appropriate Sherwin-Williams primer.
- **Wash** surfaces with a mild detergent in hot water. Rinse well and wipe dry with a clean cloth.
- **Solvent clean** with the appropriate Low VOC Surface Cleaner R7K158 or R7K156 and wipe dry with a clean cloth.
- **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

- DTM Epoxy Primers:
  - E2B931 / E2W932 / E2A933 / E2Y936
  - E2A960 / E2W963
  - NP75 / NP74W / NP76
- DTM Urethane Primers:
  - E2W817 / E2B818 / E2A819
  - E2W805 / E2A820 / E2W823
  - E2W840 / E2A841

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### MIXING

- Stir or shake GENESIS Lustral color thoroughly before mixing.
- **DO NOT** add accelerator as it is already incorporated into the GR1083, GR1085, GR1089 & GR1099 reducers.
- **ADD** accelerator if using reducers in the post-add column.

#### Flat (LST1), Satin (LST3) & Semi-Gloss (LST5)



#### Gloss (LST9)



Temperature	Speed	Pre-accelerated Reducer	OR	Post-add Reducer (no accelerator added)	Accelerator Amount (GA1100/GA1097/GA1098)	Retarder using R7K323 (optional)
Below 75° F	Fast	GR1089		US2 or GR1088	1-3 oz/gal.	None
75-90° F	Medium	GR1085		US3 or GR1070	1-3 oz/gal.	1-3 oz/gal.
Above 90° F	Slow	GR1083		US4 or GR1073	1-3 oz/gal.	1-3 oz/gal.

### POT LIFE

Using 3oz/gal of <b>GA1097</b>	2 hrs.	At 75° F
Using 3oz/gal of <b>GA1098</b>	1 hr.	At 75° F
Using 3oz/gal of <b>GA1100</b>	30 mins	At 75° F

### 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



### 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.

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### DRYING SCHEDULE

- Dry film thickness during testing at 2.0-2.5 mils.

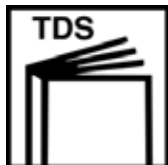
<u>Fast</u>	Air Dry at 77° F				Force Dry: 10 mins at 160° F			
Using GR1089 (or equivalent)	LST1	LST3	LST5	LST9	LST1	LST3	LST5	LST9
Hand Slick	10 mins	10 mins	10 mins	10 mins	5 mins	5 mins	5 mins	5 mins
Tack Free	60 mins	60 mins	60 mins	30 mins	10 mins	10 mins	10 mins	10 mins
Tape Free	90 mins	90 mins	90 mins	60 mins	30 mins	30 mins	30 mins	30 mins

<u>Medium</u>	Air Dry at 85° F+				Force Dry: 10 mins at 160° F			
Using GR1085 (or equivalent)	LST1	LST3	LST5	LST9	LST1	LST3	LST5	LST9
Hand Slick	10 mins	10 mins	10 mins	10 mins	10 mins	10 mins	10 mins	10 mins
Tack Free	20 mins	20 mins	20 mins	20 mins	10 mins	10 mins	10 mins	10 mins
Tape Free	45 mins	45 mins	45 mins	45 mins	30 mins	30 mins	30 mins	30 mins

<u>Slow</u>	Air Dry at 95° F+				Force Dry: 10 mins at 160° F			
Using GR1083 (or equivalent)	LST1	LST3	LST5	LST9	LST1	LST3	LST5	LST9
Hand Slick	10 mins	10 mins	10 mins	10 mins	10 mins	10 mins	10 mins	10 mins
Tack Free	30 mins	30 mins	30 mins	30 mins	10 mins	10 mins	10 mins	10 mins
Tape Free	60 mins	60 mins	60 mins	60 mins	30 mins	30 mins	30 mins	30 mins

**Note:** Genesis Lustral can be recoated with itself up to 72 hours after application without scuff sanding. After 72 hours scuff sanding is required.

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### TECHNICAL DATA

#### LST1

<b>Mixing Ratio by Volume</b>	4:1:1	<b>Pot Life</b>	1.5 hrs.
<b>Max VOC with toners and exempt reducer</b> With non-compliant reducer and accelerator Add Retarder R7K323 at 3oz/gal	2.11 lbs./gal. 3.40 lbs./gal. 3.50 lbs./gal.	<b>Viscosity (sprayable)</b> <b>#2 Zahn Cup, Signature Series</b>	17-22 secs
<b>Ready to Spray Volume Solids</b>	38-42%	<b>Recommended Dry Film Thickness</b>	1.8-2.5 mils
<b>Coverage at 1 mil Dry Film Thickness</b>	590 ft <sup>2</sup> /gal.	<b>Gloss 60°</b>	5-15

#### LST3

<b>Mixing Ratio by Volume</b>	4:1:1	<b>Pot Life</b>	1.5 hrs.
<b>Max VOC with toners and exempt reducer</b> With non-compliant reducer and accelerator Add Retarder R7K323 at 3oz/gal	2.08 lbs./gal. 3.35 lbs./gal. 3.50 lbs./gal.	<b>Viscosity (sprayable)</b> <b>#2 Zahn Cup, Signature Series</b>	17-22 secs
<b>Ready to Spray Volume Solids</b>	38-42%	<b>Recommended Dry Film Thickness</b>	1.8-2.5 mils
<b>Coverage at 1 mil Dry Film Thickness</b>	607 ft <sup>2</sup> /gal.	<b>Gloss 60°</b>	25-35

#### LST5

<b>Mixing Ratio by Volume</b>	4:1:1	<b>Pot Life</b>	1.5 hrs.
<b>Max VOC with toners and exempt reducer</b> With non-compliant reducer and accelerator Add Retarder R7K323 at 3oz/gal	2.04 lbs./gal. 3.31 lbs./gal. 3.50 lbs./gal.	<b>Viscosity (sprayable)</b> <b>#2 Zahn Cup, Signature Series</b>	17-22 secs
<b>Ready to Spray Volume Solids</b>	39-43%	<b>Recommended Dry Film Thickness</b>	1.8-2.5 mils
<b>Coverage at 1 mil Dry Film Thickness</b>	622 ft <sup>2</sup> /gal.	<b>Gloss 60°</b>	40-60

#### LST9

<b>Mixing Ratio by Volume</b>	3:1:1	<b>Pot Life</b>	1.5 hrs.
<b>Max VOC with toners and exempt reducer</b> With non-compliant reducer and accelerator Add Retarder R7K323 at 3oz/gal	2.77 lbs./gal. 3.19 lbs./gal. 3.34 lbs./gal.	<b>Viscosity (sprayable)</b> <b>#2 Zahn Cup, Signature Series</b>	17-22 secs
<b>Ready to Spray Volume Solids</b>	45-49%	<b>Recommended Dry Film Thickness</b>	1.8-2.5 mils
<b>Coverage at 1 mil Dry Film Thickness</b>	646 ft <sup>2</sup> /gal.	<b>Gloss 60°</b>	90

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### REGULATORY DATA

LST1	<u>As Packaged</u>		<u>As Applied</u>	
	Lbs./Gal.	G/L	Lbs./Gal.	G/L
Density	9.18-12.26	1092-1458	9.09-11.15	1081-1327
VOC Total	4.73-4.49	563-534	4.98-5.17	592-680
VOC Less Exempt	2.38-1.98	286-237	2.14-1.84	254-221
HAPs	0	0	0	0
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	51.61-36.64	60.13-56.32	54.88-43.30	61.57-59.03
Water	0	0	0	0
Exempt Compounds	36.04-27.00	40.24	42.03-34.28	45.62

LST3	<u>As Packaged</u>		<u>As Applied</u>	
	Lbs./Gal.	G/L	Lbs./Gal.	G/L
Density	9.16-12.24	1090-1456	9.08-11.14	1080-1325
VOC Total	4.98-4.42	593-525	4.95-4.78	589-568
VOC Less Exempt	2.34-1.94	280-232	2.11-1.82	253-218
HAPs	0	0	0	0
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	54.43-36.12	60.66-54.95	54.53-42.92	60.66-58.12
Water	0	0	0	0
Exempt Compounds	35.30-26.41	38.82	41.53-33.86	44.67

LST5	<u>As Packaged</u>		<u>As Applied</u>	
	Lbs./Gal.	G/L	Lbs./Gal.	G/L
Density	9.14-12.22	1087-1454	9.07-11.12	1079-1323
VOC Total	4.59-4.34	546-517	4.89-4.73	582-563
VOC Less Exempt	2.29-1.90	274-228	2.08-1.79	249-215
HAPs	0	0	0	0
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	50.27-35.59	57.41-53.59	53.99-42.55	59.76-57.21
Water	0	0	0	0
Exempt Compounds	34.55-25.83	37.39	41.04-33.45	43.72

LST9	<u>As Packaged</u>		<u>As Applied</u>	
	Lbs./Gal.	G/L	Lbs./Gal.	G/L
Density	8.98-12.06	1068-1435	8.96-10.81	1066-1295
VOC Total	4.02-3.77	496-449	4.61-4.46	572-530
VOC Less Exempt	1.98-1.65	237-198	1.84-1.60	220-192
HAPs	0	0	0	0
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	44.79-31.32	46.49-42.67	51.49-41.32	53.67-51.38
Water	0	0	0	0
Exempt Compounds	28.45-21.17	25.99	38.76-32.12	38.15

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### LABEL CAUTION

#### GENESIS LST 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.

#### GR1083 / GR1085 / GR1089 / GR1099 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](http://OEM.Sherwin-Williams.com).