

**GlobalStar**

L10.1.K1

High Gloss UHS Low VOC Polyurethane

\*\*For Airless Application

**GlobalStar**  
INDUSTRIAL



US/10142016L10.1.K1

## Technical Data Sheet

### Description

L10.1.K1 is a 2K High Solids High Gloss Low VOC Anti-Sag Urethane Topcoat, specifically designed for Airless applications, (can also be used with air assist airless, pressure pot or cup gun). L10.1.K2 has qualities such as high film builds with 100% gloss retention and great dry and through cure by the next day at 20° C (68° F.). L10.1.K1 is compliant in all restricted VOC areas.

### Suggested Uses

As a high performance topcoat over suitable primers or over properly prepared substrates, including: Hot and Cold roll steel, Galvanized Steel, Aluminum, fiberglass, plastics and wood where:

Outstanding Gloss and color retention are desired.

- Outstanding adhesion and flexibility is required.
- Excellent chemical resistance is required.
- Low VOC coatings are mandated.
- Excellent anti-sag qualities for easy application around hard to get to areas.
- Excellent performance when using air-assist airless, pressure pot, cup gun
- Can be used for roller or brush application.

### Field Applications

- Heavy industrial equipment
- Oil Field equipment
- Construction equipment
- Aircraft and Marine (above the water line)
- Airport ground support equipment
- Truck and Trailer Refinishing
- Equipment, Truck, Trailer OEM finishing.

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### Components

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GS0R-F, GS0R-M, GS0R-S

AV.002

Base

Fast, Medium, Slow Urethane Reducer (VOC compliance)  
(In National Rule areas GSR-F, M, S Reducers are used)

Hardener (VOC compliance)

(In National Rule areas AH.002 Activators are used)

### Mixing Ratio

Mix:

Mix three (3) parts base color to one (1) part hardener.

Reduce 10% with airless, 15%-20% with air assist airless and pressure pot, 33% with cup gun using selected suitable reducer.

### Pot Life

2 hours @ 20° C (68° F)

### Application

Apply:

Two medium wet coats, allow 10-20 minutes flash between coats.  
Or apply one medium coat follow by a medium cross coat.

Spray Gun:

HVLP Gravity Feed – 1.4 – 1.6mm tip and needle

Pressure Pot HVLP – 1.0 – 1.1mm tip and needle

Air Assist Airless - 1.0 – 1.1mm tip and needle

Conventional – 1.4 – 1.7mm tip and needle

Airless 312, 415, 517 tip on 30-1 pump.

Film Build:

75-150 microns – (3.0 – 6.0 mils. dry) when applied as directed.

### Dry Times

Dust Free:

60 minutes @ 20° C (68° F)

Dry to Touch

2-4 hours @ 20° C (68° F)

Total Hardness

24 hours @ 20° C (68° F)

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Force Dry

45 minutes @ 60° C (140° F)

Chemical Resistance

Maximum resistance after 7 days

### Surface Preparation

#### **Ferrous metals:**

Best Case

SA2 sandblast Blow all dust and contaminates off and apply Suitable GlobalStar primer, followed by topcoat as directed.

Second Best Case

Hot Phosphate wash system, blow dry and apply suitable GlobalStar primer, followed by topcoat as directed.

Third Best Case

Careful mechanical abrasion. Clean all dust, oil residue, finger prints and contaminates before and after mechanical abrasion with a clean drying wax and grease removal solvent, making sure all residue is removed. Apply suitable GlobalStar primer followed by topcoat as directed.

#### **Aluminum:**

Clean surface with clean drying wax and grease remover. Apply GlobalStar Epoxy Primer followed by topcoat.

#### **Galvanized Steel:**

Clean all dust, oil residue, and contaminates from surface using a Clean drying wax and grease remover. Light Sanding (320P grit) Clean again with clean drying wax and grease remover using a wipe and dry process. Apply GlobalStar Epoxy Primer follow by topcoat as directed.

### VOC

Regulatory VOC Compliant

219.28 g/l (1.83 lbs./gl.) when using VOC compliant hardener & reducer.

Actual VOC Compliant

201.37 g/l (1.68 lbs./gl.) when using VOC compliant hardener & reducer.

### Solids

By Volume

47.57%

By Weight

48.29%

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#### Specific Gravity

1.11 kg/l (9.268 lbs./gl.)

#### Coverage

381.74 square feet per gallon @ 100% transfer efficiency,  
@ 50 microns (2 mils.).

35.43 square meters per gallon @ 100% transfer efficiency,  
@ 50 microns (2 mils.).

#### Repainting

After 24-36 hours @20° C (68° F). Light sand recommended for best adhesion. After force dry recommendations are completed, allow cool down for 2 hours before sand and recoat.

#### Storage Stability

One year for A (base) component, 6 months B (Hardener)  
Component in closed package, in cool dry place, away from any heat source.

#### Heat Resistance

Once cured 180° C (356° F)

#### ASTM Information:

Test	Results	Test Methods
Abrasion Resistance	Excellent	ASTM D 4060
Adhesion	Excellent	ASTM D 4541 ASTM D 3359 A/B (5/5)
Salt Spray Resistance	Excellent	ASTM B 117(pass 1500 hrs.)
Direct Impact Resistance	Very Good	ASTM D 2794 (140 in-lbs.)
Reverse Impact Resistance	Very Good	ASTM D 2794 (50 in-lbs.)
Humidity Resistance	Excellent	ASTM D 2247(Pass 1000 hrs.)
Film Hardness	3H	ASTM D 3363
Chemical Resistance	Excellent	ASTM D 1308
(Rating Scale 1-10 with 10 best)	10	1% Sodium Hydroxide
	10	5% Sodium Hydroxide

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10	10% Sodium Hydroxide
10	10% Ammonia
10	Diesel Fuel
10	1% Hydrochloric Acid
10	1% Sulfuric Acid
10	10% Sulfuric Acid
10	100% Ethanol
10	1% Phosphoric Acid
10	10% Phosphoric Acid
10	MEK (Methyl Ethyl Ketone)
10	Gasoline
10	Skydrol
10	DOT 3 Brake Fluid

<u>QUVA</u>	<u>Excellent</u>	<u>ASTM D 4587 (1500 hrs. -97%)</u>
<u>Initial Gloss @ 60°</u>	<u>93 min</u>	<u>ASTM D523</u>
<u>Solvent Resistance</u>	<u>Surpassed</u>	<u>ASTM D 4752 (1000 MHR)</u>
<u>Flexibility</u>	<u>Excellent</u>	<u>ASTM D 522 Mandrel</u>

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